# **SIEMENS**

Data sheet US2:74HT36BFAP



Enclosed soft starter, Controller 3RW44356BC34, Std duty rating 30HP @200V, Std duty current rating 117A Control voltage 115Vac Combination type, 150A circuit breaker, Enclosure NEMA type 1, Indoor general purpose use

Figure similar

product brand name design of the product special product feature

#### Class 74

Enclosed soft starter with motor circuit protector Control transformer, built-in overload relay and bypass contactor included.

#### General technical data

weight [lb]

Height x Width x Depth [in]

touch protection against electrical shock

installation altitude [ft] at height above sea level maximum ambient temperature [°F]

- during storage
- during operation

ambient temperature

- · during storage
- during operation

country of origin

## 146 lb

50 × 25 × 20 in

NA for enclosed products

6560 ft

-22 ... +149 °F

-4 ... +104 °F

-30 ... +65 °C

-20 ... +40 °C

USA

### Power and control electronics

manufacturer's article number of soft starter

number of poles for main current circuit

design of power semiconductors (thyristors) for soft starter

control

operating range factor supply voltage rated value

operating range factor of control voltage rated value

operating condition for standard duty

operating condition for severe duty

# 3RW44356BC34

3

3 controlled phases

0.85 ... 1.1

0.85 ... 1.1

Class 10, standard-compliant startup

Class 20 severe duty (350% of motor FLA for 20 seconds)

#### Features and functions

ramp-up (soft starting)/ramp-down (soft stop)

starting voltage [%]

stopping voltage [%]

voltage ramp ramp-up time

ramp-down time

torque control

starting torque [%]

stopping torque [%]

stopping torque [70]

torque limitation [%]

ramp time of torque

adjustable current limitation creep speed in both directions of rotation

pump ramp down

integrated bypass contact system

Yes

20 ... 100 %

20 ... 100 %

Yes

1 ... 360 s

1 ... 360 s

Yes

20 ... 100 %

20 ... 100 %

20 ... 200 %

1 ... 360 s Yes

Yes

Yes

Yes

sotemal Solation contactor inthinaic device protection vyes overload protection vyes inthinaic device protection vyes reset function reset function reset function vyes thermistor motor protection vyes thermistor motor protection vyes breakaway pulse vyes Combined braking vyes combined braking vyes combined braking ves combined braking ves configuration of control input 1 configuration of control input 2 configuration of control input 3 configuration of central input 4 configuration of central input 4 configuration of relay output 1 configuration of relay output 1 configuration of relay output 2 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 display version output at the relay output 4 display version operating measured value display product extension optional human machine interface module  yies of communication optional time of the commun		
overload protection typ class caset function reset function remote reset function thermistor motor protection inside-delia circlia threakway pulse Ves DC braking combined braking remotor hereing configuration of control input 1 configuration of control input 2 configuration of control input 1 configuration of control input 2 configuration of control input 3 configuration of cellsy output 1 configuration of relay output 1 configuration of relay output 3 configuration of relay output 4 display version configuration of relay output 5 display version configuration of relay output 6 display version configuration of relay output 6 display version configuration of relay output 7 ves  ves  ves  ves  ves  ves  ves  ves	external isolation contactor	No
tip class   CLASS 5 / 10 / 15 / 20 / 30   meret function   menute reset function   Yes   Y	intrinsic device protection	Yes
reset function remole remo	overload protection	Yes
remote reset function	trip class	CLASS 5 / 10 / 15 / 20 / 30
thermistor motor protection inside-data carriard. Yes inside-data carriard. Yes combined braiding Yes combined braiding Yes motor healting Yes motor healting Yes motor healting Yes motor healting Yes configuration of control input 1 configuration of control input 2 programmable configuration of control input 3 programmable configuration of control input 3 programmable configuration of relay output 3 programmable configuration of relay output 4 configuration of relay output 4 configuration of relay output 4 programmable configuration of relay output 3 programmable configuration of relay output 4 programmable configuration of relay output 3 programmable configuration of relay output 4 programmable configuration of relay output 4 programmable configuration of relay output 3 programmable configuration of relay output 3 programmable configuration of relay output 4 programmable configuration of relay output 3 programmable configuration of relay output 3 programmable configuration of relay output 3 programmable configuration of relay output 4 prog	reset function	Manual and automatic
inside-delta circuit  Presidence y publish  Ob braking  Or braking  Or braking  Or braking  Or braking  Yes  Or braking  Or braking  Yes  Or braking  Yes  Or braking  Or braki	remote reset function	Yes
breaknawy pulse  Do breking combined braking motor healting contiguration of control input 1 configuration of control input 2 configuration of control input 3 configuration of control input 3 configuration of relay output 4 configuration of relay output 1 configuration of relay output 1 configuration of relay output 2 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output	thermistor motor protection	Yes
DC braking ves combined braking ves configuration of control input 1 configuration of control input 2 programmable configuration of control input 2 programmable configuration of control input 3 programmable configuration of control input 4 TRIP RESET, preset configuration of relay output 1 Configuration of relay output 2 programmable configuration of relay output 2 programmable configuration of relay output 3 programmable configuration of relay output 3 programmable configuration of relay output 4 programmable programmable configuration of relay output 4 programmable pro	inside-delta circuit	Yes
DC braking on combined braking	breakaway pulse	Yes
combined braising Yes  motor heating Yes  configuration of control input 1  configuration of control input 2  configuration of control input 3  configuration of control input 4  Configuration of control input 4  Configuration of relay output 1  Configuration of relay output 2  configuration of relay output 3  configuration of relay output 3  configuration of relay output 4  Configuration of relay output 6  Configuration of	· · · · · · · · · · · · · · · · · · ·	Yes
rodor healing configuration of control input 1 configuration of control input 2 configuration of control input 3 configuration of relay output 1 configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 display version operating measured value display product extension optional human machine interface module type of communication optional human machine interface module type of communication optional error logbook versitist Yes vervittiist Yes slave pointer function error logbook versitist Yes slave pointer function Yes slave pointer function Yes disconnector functionality Yes disconnector functionality Yes disconnector functionality Yes disconnector functionality Yes contactor  Size of contactor NA  Coil  The first of the control supply voltage control supply voltage on 1 AC at 60 Hz rated value at AC at 60 Hz rated value at AC at 60 Hz rated value at AC at 60 Hz rated value feepers of protection NEMA rating degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosure degree of protection NEMA rating of the enclosu		
configuration of control input 1 configuration of control input 2 configuration of control input 3 configuration of control input 4 configuration of control input 4 configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 configuration of relay ou	_	
configuration of control input 2 configuration of control input 3 configuration of control input 4 configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 4 display version operating measured value display product extension optional human machine interface module type of communication optional error lopbook vevan tilst slave pointer function trace Trace function Trace Trace function Trace	9	
configuration of control input 3 configuration of control input 4 configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 3 configuration of relay output 4 configuration of relay output 5 configuration of relay output 4 configuration of relay outpu	-	
configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 display version operating measured value display product extension optional human machine interface module type of communication optional error logbook event list ves slave pointer function Yes slave pointer function Yes slave pointer function Yes display oversion Oyacan pointer function Yes slave pointer function Yes display Yes  Graphic display Yes  With optional Profibus or Profinet Yes slave pointer function Yes slave pointer function Yes slave pointer function Yes display Yes  Graphic display Yes  Contactor  Size of forted on NEMA rating degree of protection NEMA rating of the enclosure design of the housing yee of cooling  Circuit Breaker type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit tranded  mounting position fastening method  Motor circuit protector (magnetic trip only) operational current of motor ficial breaker rated value adjustable current of motor circuit breaker rated value adjustable our ent response value current of instantaneous short-circuit fraunder  Motor circuit protector (magnetic trip only) operational current of motor circuit breaker rated value adjustable our ent response value current of storation and installation  Motor circuit protector (magnetic trip only) operational current of motor ficial breaker rated value adjustable current of motor circuit breaker rated value adjustable current of moto	-	
configuration of relay output 1 configuration of relay output 2 configuration of relay output 3 configuration of relay output 3 configuration of relay output 4 GROUP ERROR, preset GROUP ERROR Freshed With option display Freshed The set of present and pre		
configuration of relay output 2 configuration of relay output 3 configuration of relay output 4 display version operating measured value display product extension optional human machine interface module type of communication optional vest trace function trace function ves slave pointer function trace function ves slave pointer function ves slave of contactor ves disconnector functionality ves  Contactor  Contactor  AC  Coil  Type of voltage of the control supply voltage out of the motor protection degree of protection NEMA rating degree of protection perational current of motor circuit breaker rated value adjustable current of motor circuit breaker  Vertical  Surface mounting and installation Soo m S		
configuration of relay output 3 display version operating measured value display Ves  ves  ves  ves  ves  ves  ves  ves		
configuration of relay output 4 display version operating measured value display product extension optional human machine interface module type of communication optional type of communication optional trace function		
display version operating measured value display product extension optional human machine interface module type of communication optional type of communication optional version (page of the control state and motor maximum type of electrical connectable conductor for supply voltage and surface from the motor starter and motor maximum properatives of the conductor for supply voltage and sufficient production operational current of motor circuit breaker rated value and use and supply substance in supply voltage and sufficient type of electrical connectable conductor for supply voltage in easiled type of connectable conductor for supply voltage in easiled type of electrical connectable conductor for supply voltage and sufficient products at the conductor of supply voltage in standard of the conductor for supply voltage in easiled type of connectable conductor for supply voltage in standard content of the conductor for supply voltage in standard content of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production of the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply woltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in sufficient production to the conductor for supply voltage in suffici		
operating measured value display product extension optional human machine interface module type of communication optional without a communication optional without and the product extension optional human machine interface module type of communication optional without and the product of the control optional without and the product of the control without and the product of the product o		
product extension optional human machine interface module type of communication optional error logbook Yes Yes event list Yes slave pointer function Yes Intrace functionality Yes Intrace functional		
module type of communication optional error logbook event list Yes salve pointer function Yes Yes elunction Yes disconnector functionality Yes disconnector functionality Yes Contactor NA Cotl Yes elunction Wes elunction Wes elunction Wes elunction with the provided of the control supply voltage AC control supply voltage AC control supply voltage AC elunction with the provided of the control supply voltage AC elunction with the provided of the control supply voltage AC elunction with the provided of the control supply voltage AC elunction with the provided of the control supply voltage AC elunction with the provided of the elunction of the elunction with the provided of the elunction of the elunction with the provided of the elunction of the elunction with the provided of the elunction of the elu		
type of communication optional error logbook Yes event list Yes slave pointer function Yes Intrace function Yes enumber of parameter sets 3 anomeror of parameter sets 3 anomeror of parameter sets 4 anomeror of parameter sets 5 anomeror functionality Yes Yes Contactor Yes Contactor Yes Contactor Yes Contactor NA COII Yes Official		Yes
error logbook event list ves event list ves event list ves slave pointer function trace function trace function ves number of parameter sets angineering software (Soft Starter ES) disconnector functionality ves  Contactor  Size of contactor  NA  Coil  type of voltage of the control supply voltage at AC at 50 Hz rated value 115 V		With entianal Profibus or Profinct
event list slave pointer function Yes slave pointer function Yes number of parameter sets agengineering software (Soft Starter ES) Yes disconnector functionality Yes Yes   Contactor  Size of contactor  Size of contactor  NA  Cotl  Veyor of voltage of the control supply voltage Control supply voltage at AC at 50 Hz rated value 115 V  at AC at 60 Hz rated value 115 V  Enclosure  degree of protection NEMA rating 1 Indoors, usable on a general basis None  Circuit Breaker  Vye of voltage of the notor protection operational current of motor circuit breaker rated value adjustable current response value current of sistantaneous short-circuit trip unit  Mounting viring  mounting position fastering method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWIC cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder type of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder type of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible for connectable conductor cross-sections at AWIC cables for load-side outgoing feeder type of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder stiple or multi-stranded temperature of the conductor for supply maximum permissible for connectable conductor cross-sections at AWIC cables for load-side outgoing feeder stiple of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder stiple of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder stiple of connectable conductor cross-sections at AWIC cables for load-side outgoing feeder stipl		·
slave pointer function trace function trace function trace function yes  any experiment of parameter sets engineering software (Soft Starter ES) disconnector functionality yes  disconnector functionality  size of contactor  size of contactor  NA  Coil  type of voltage of the control supply voltage e at AC at 50 Hz rated value 115 V e at AC at 60 Hz rated value 115 V  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of concatable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for load-side outgoing feeder tightening torque [lbF-in] for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbF-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor for susphy Type of electrical connection for load-side outgoing feeder tightening torque [lbF-in] for load-side outgoing feeder type of connectable conductor for susphy Type of electrical connection for load-side outgoing feeder type of connectable conductor for sos-sections at AWG cables for load-side outgoing feeder type of connectable conductor for susphy Type of electrical connection for load-side outgoing feeder type of connectable conductor for sos-sections at AWG cables for load-side outgoing feeder type of connectable conductor for susphy Type of electrical connection for load-side outgoing feeder type of connectable conductor for susphy Type of electrical connection for load-side outgoi	_	
trace function number of parameter sets engineering software (Soft Starter ES) disconnector functionality  Contactor size of contactor  Ves  AC control supply voltage  • at AC at 50 Hz rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value  • at AC at 60 Hz rat		
number of parameter sets engineering software (Soft Starter ES) disconnector functionality  Contactor  size of contactor  NA  Coil  type of voltage of the control supply voltage e at AC at 50 Hz rated value 115 V at AC at 50 Hz rated value 115 V e at AC at 50 Hz rated value 115 V e at AC at 50 Hz rated value 115 V  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current for motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply woltage line-side type of connectable conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor for supply type of electrical connection for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor for supply maximum permissible material of the conductor for supply maximum permissible mounting feeder single or multi- type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing fe		
engineering software (Soft Starter ES) disconnector functionality  Yes  Size of contactor  Size of contactor  NA  Coil  type of voltage of the control supply voltage		
Size of contactor   Size of control supply voltage   AC   Size of Size o		
Size of contactor  Size of contactor  Coll  Type of voltage of the control supply voltage  • at AC at 50 Hz rated value  • at AC at 50 Hz rated value  115 V  • at AC at 50 Hz rated value  115 V  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  Type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply maximum permissible material of the conductor for supply was a two conductors at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-		
size of contactor NA  Coil  type of voltage of the control supply voltage	disconnector functionality	Yes
type of voltage of the control supply voltage		
type of voltage of the control supply voltage	Contactor	
● at AC at 50 Hz rated value 115 V  ■ at AC at 50 Hz rated value 115 V  Enclosure  degree of protection NEMA rating 1 degree of protection NEMA rating 2 design of the housing 3 type of cooling 1  Circuit Breaker  Type of the motor protection 9 operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit 1  Mounting/wiring 1  mounting position 5 fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded 1  temperature of the conductor for supply maximum permissible material of the conductor for supply waximum permissible material of the conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder of position for load-side outgoing feeder of position feeder single or multi-stranded feeder single or mu		NA
● at AC at 50 Hz rated value 115 V  ■ at AC at 50 Hz rated value 115 V  Enclosure  degree of protection NEMA rating 1 degree of protection NEMA rating 2 design of the housing 3 type of cooling 1  Circuit Breaker  Type of the motor protection 9 operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit 1  Mounting/wiring 1  mounting position 5 fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded 1  temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder type of connectable conductor rorss-sections at AWG cables for load-side outgoing feeder type of connectable conductor rorse-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor	NA
<ul> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> <li>115 V</li> <li>125 V</li> <li>126 A</li> <li>120 A</li> <li>120 A</li> <li>120 A</li> <li>800 1500 A</li> <li>800 150</li></ul>	size of contactor Coil	
degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling indoors, usable on a general basis None  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage	
degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling indoors, usable on a general basis None  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [libf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage	AC
degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling None  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply with the production for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables or load-side outgoing feeder single or multi-stranded cables for load-side outgoing feeder single or multi-stranded value and supply to the productor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded cables for load-side outgoing feeder sing	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value	AC 115 V
degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [Ibf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value	AC 115 V
design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  indoors, usable on a general basis None  Motor circuit protector (magnetic trip only)  150 A 800 1500 A  indoors, usable on a general basis None  Motor circuit protector (magnetic trip only)  150 A 800 1500 A  indoors, usable on a general basis None  About circuit protector (magnetic trip only)  150 A 800 1500 A  indoors, usable on a general basis None  About circuit protector (magnetic trip only)  150 A 800 1500 A  indoors, usable on a general basis None	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure	AC 115 V 115 V
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating	AC 115 V 115 V
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure	AC 115 V 115 V 1 NEMA Type 1
type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit    Mounting/wiring	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis
operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  150 A 800 1500 A  800 1500 A	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis
adjustable current response value current of instantaneous short-circuit trip unit    Mounting/wiring	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis
mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  Vertical Surface mounting and installation 500 m Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  To C  To C  Box lug  90 110 lbf-in To 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None
mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  Vertical Surface mounting and installation  500 m  Box lug  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C  AL or CU  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG  (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only)
mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A
fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A
wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  500 m  Box lug  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  AL or CU  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A
wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  500 m  Box lug  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  AL or CU  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A
type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  Box lug  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  AL or CU  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C  AL or CU  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation
temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  75 °C  Box lug 90 110 lbf·in 7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation 500 m
material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  AL or CU  Box lug  90 110 lbf·in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation 500 m Box lug
type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-  Box lug  90 110 lbf-in  7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum	AC  115 V  115 V  1 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation 500 m Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)
tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage     • at AC at 50 Hz rated value     • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	AC  115 V  115 V  116 NEMA Type 1  indoors, usable on a general basis None  Motor circuit protector (magnetic trip only)  150 A  800 1500 A  Vertical Surface mounting and installation 500 m  Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	AC  115 V  115 V  116 V  117 NEMA Type 1  Indoors, usable on a general basis  None  Motor circuit protector (magnetic trip only)  150 A  150 A  1500 A  1500 M  1500 m  1500 m  1500 m  1500 m  1500 lug  1500 m  1500
cables for load-side outgoing feeder single or multi- (both front & back)	size of contactor  Coil  type of voltage of the control supply voltage	AC  115 V  115 V  11 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation 500 m Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C  AL or CU Box lug
stranded	size of contactor  Coil  type of voltage of the control supply voltage control supply voltage  • at AC at 50 Hz rated value  • at AC at 60 Hz rated value  Enclosure  degree of protection NEMA rating of the enclosure design of the housing type of cooling  Circuit Breaker  type of the motor protection operational current of motor circuit breaker rated value adjustable current response value current of instantaneous short-circuit trip unit  Mounting/wiring  mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply type of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feeder	AC  115 V  115 V  116 NEMA Type 1  Indoors, usable on a general basis  None  Motor circuit protector (magnetic trip only)  150 A  800 1500 A  Vertical  Surface mounting and installation  500 m  Box lug  1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C  AL or CU  Box lug  90 110 lbf-in
	size of contactor  Coil  type of voltage of the control supply voltage	AC  115 V  115 V  11 NEMA Type 1 indoors, usable on a general basis None  Motor circuit protector (magnetic trip only) 150 A 800 1500 A  Vertical Surface mounting and installation 500 m Box lug 1x (6 AWG 350 Kcmil) or 1x (4 AWG 350 Kcmil)  75 °C  AL or CU Box lug 90 110 lbf-in 7 2/0 AWG (front only) or 6 2/0 AWG (back only) or 2x 1/0 AWG

temperature of the conductor for load-side outgoing feeder 75 °C maximum permissible material of the conductor for load-side outgoing feeder CU type of electrical connection for auxiliary and control circuit Screw-type terminals tightening torque [lbf·in] for auxiliary and control contacts 7 ... 10 lbf·in with screw-type terminals type of connectable conductor cross-sections at AWG 2x (20 ... 14 AWG) cables for auxiliary and control contacts temperature of the conductor for auxiliary and control 75 °C contacts maximum permissible material of the conductor for auxiliary and control contacts CU

### Short-circuit current rating

design of the short-circuit trip	Motor circuit protector (magnetic trip only)
maximum short-circuit current breaking capacity (Icu)	
● at 240 V	100 kA
● at 480 V	100 kA
● at 600 V	0 kA
certificate of suitability	NEMA ICS 2; UL 508A

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:74HT36BFAP

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

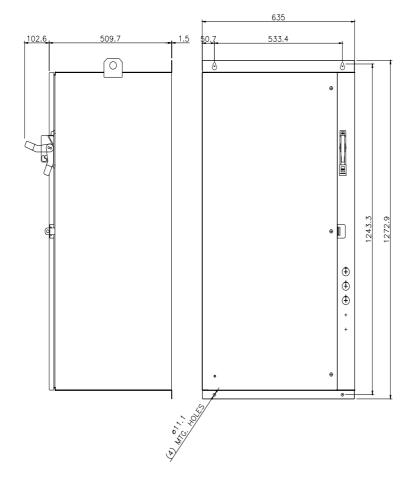
https://support.industry.siemens.com/cs/US/en/ps/US2:74HT36BFAF

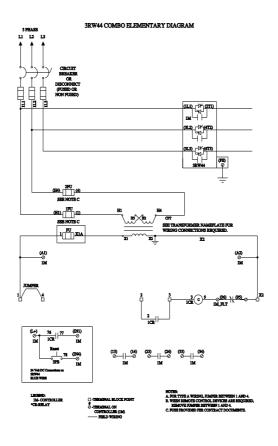
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:74HT36BFAP&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:74HT36BFAP/certificate





D69015H16

last modified: 1/25/2022 🖸