SIEMENS

Data sheet

US2:73MT34WFA



Enclosed soft starter, Controller 3RW44456BC34, Std. duty rating 200HP @460V, Std. duty current rating 280A Control voltage 115Vac Encl NEMA type 4X 304 S-steel Water/dust tight noncorrosive

product brand name	Class 73
design of the product	Enclosed soft starter
special product feature	Control transformer, built-in overload relay and bypass contactor included.
General technical data	
weight [lb]	204 lb
Height x Width x Depth [in]	54 × 36 × 20 in
touch protection against electrical shock	NA for enclosed products
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
• during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
during storage	-30 +65 °C
 during operation 	-20 +40 °C
country of origin	USA
Power and control electronics	
manufacturer's article number of soft starter	<u>3RW44456BC34</u>
number of poles for main current circuit	3
design of power semiconductors (thyristors) for soft starter control	3 controlled phases
operating range factor supply voltage rated value	0.85 1.1
operating range factor of control voltage rated value	0.85 1.1
operating condition for standard duty	Class 10 standard duty (350% of motor FLA for 10 seconds)
operating condition for severe duty	Class 20 severe duty (350% of motor FLA for 20 seconds)
Features and functions	
ramp-up (soft starting)/ramp-down (soft stop)	Yes
starting voltage [%]	20 100 %
stopping voltage [%]	20 100 %
voltage ramp	Yes
ramp-up time	1 360 s
ramp-down time	1 360 s
torque control	Yes
starting torque [%]	20 100 %
stopping torque [%]	20 100 %
torque limitation [%]	20 200 %
ramp time of torque	1 360 s
adjustable current limitation	Yes
creep speed in both directions of rotation	Yes
pump ramp down	Yes
integrated bypass contact system	Yes

external isolation contactor	No
intrinsic device protection	Yes
overload protection	Yes
trip class	CLASS 5 / 10 / 15 / 20 / 30
reset function	Manual and automatic
thermistor motor protection	Yes
inside-delta circuit	Yes
breakaway pulse	Yes
DC braking	Yes
combined braking	Yes
motor heating	Yes
configuration of control input 1	Factory set as START MOTOR
configuration of control input 2	programmable
configuration of control input 3	programmable
configuration of control input 4	Factory set as TRIP RESET
configuration of relay output 1	Factory set as ON-TIME MOTOR
configuration of relay output 2	programmable
configuration of relay output 2	programmable
configuration of relay output 4	Factory set as GROUP ERROR
display version	Graphic display Yes
operating measured value display	
product extension optional human machine interface module	Yes
type of communication optional	With optional Profibus or Profinet
error logbook	Yes
event list	Yes
slave pointer function	Yes
trace function	Yes
number of parameter sets	3
engineering software (Soft Starter ES)	Yes
disconnector functionality	No
Contactor	
size of contactor	NA
size of contactor Coil	NA
	NA AC
Coil	
Coil type of voltage of the control supply voltage	
Coil type of voltage of the control supply voltage control supply voltage	AC
Coil type of voltage of the control supply voltage control supply voltage • at AC at 50 Hz rated value	AC 115 V
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
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
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	AC 115 V 115 V NEMA 4x 304 stainless steel enclosure
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	AC 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
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 Mounting/wiring	AC 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion
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 Mounting/wiring mounting position	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical
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 Mounting/wiring mounting position fastening method	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation
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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation 500 m
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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation 500 m Box lug
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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation 500 m Box lug 180 195 lbf·in
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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation 500 m Box lug
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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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side tightening torque [lbf-in] for supply type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	AC 115 V 115 V 115 V NEMA 4x 304 stainless steel enclosure dustproof, waterproof & resistant to corrosion None Vertical Surface mounting and installation 500 m Box lug 180 195 lbf in 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)
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maximum permissible	
material of the conductor for auxiliary and control contacts	CU
Short-circuit current rating	
design of the fuse link for short-circuit protection of the main circuit required	10kA@600V (Class H or K); 100kA@600V (Class R, J or L)
design of the short-circuit trip	Thermal magnetic circuit breaker
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

Further information

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=US2:73MT34WFA

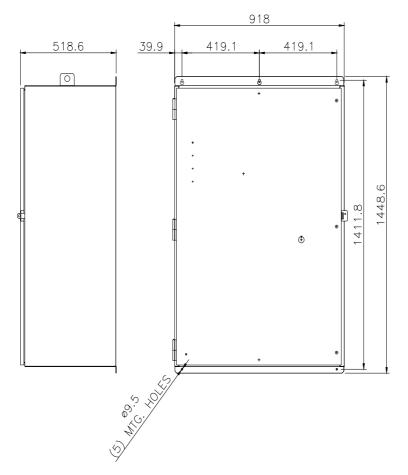
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

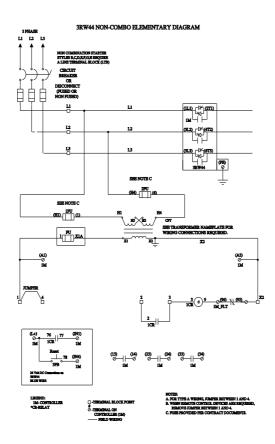
https://support.industry.siemens.com/cs/US/en/ps/US2:73MT34WFA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:73MT34WFA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:73MT34WFA/certificate





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last modified:

1/25/2022 🖸