SIEMENS

Data sheet US2:73NT320FA



Enclosed soft starter, Controller 3RW44466BC34, Std. duty rating 125Hp @230V, Std. duty current rating 315A, Control voltage 115 AC, Noncombination type, Enclosure NEMA type 12, Dust/drip proof for indoors

Figure similar

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]	202 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	3RW44466BC34
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 integrated bypass contact system external isolation contactor integrated bypass contact system external isolation contactor intrinsic device protection Yes overload protection Yes trip class CLASS 5 / 10 / 15 / 20 / 30 reset function Manual and automatic themistor motor protection Yes inside-delta circuit Yes DC braking Yes Combined braking Yes combined braking Yes combined braking Yes configuration of control input 1 configuration of control input 2 programmable configuration of control input 3 configuration of control input 4 configuration of control input 4 configuration of relay output 1 Factory set as TRIP RESET configuration of relay output 1 configuration of relay output 1 configuration of relay output 2 programmable configuration of relay output 3 programmable configuration of relay output 4 Factory set as CROUP ERROR display version Graphic display Pres module type of communication optional human machine interface module type of communication optional error logbook Yes event list Siave pointer function Yes lump of parameter sets englescent sets
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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 12
degree of protection NEMA rating of the enclosure NEMA Type 12
design of the housing dustproof and drip-proof for indoor use
type of cooling None
Mounting/wiring Vertical
mounting position Vertical
fastening method Surface mounting and installation
wire length between motor starter and motor maximum 500 m
type of electrical connection for supply voltage line-side Box lug
tightening torque [lbf·in] for supply 180 195 lbf·in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded 3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0 AWG 2x 500 MCM (both front & back)
temperature of the conductor for supply maximum permissible 75 °C
material of the conductor for supply AL or CU
type of electrical connection for load-side outgoing feeder Box lug
tightening torque [lbf·in] for load-side outgoing feeder 180 195 lbf·in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded 3/0 600 kcmil (front only) or 250 500 kcmil (back only) or 2x 500 kcmil (both front & back) AWG

temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
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 with screw-type terminals	7 10 lbf·in
temperature of the conductor for auxiliary and control contacts maximum permissible	75 °C
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
breaking capacity maximum short-circuit current (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=US2:73NT320FA

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

https://support.industry.siemens.com/cs/US/en/ps/US2:73NT320FA

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:73NT320FA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:73NT320FA/certificate

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