



Figure similar

Enclosed soft starter, Controller 3RW44466BC34, Std duty rating 125HP @230V, Std duty current rating 315A Control voltage 115Vac Combination type, 600Amp fusible disconnect, Enclosure NEMA type 12, Dust/drip proof for indoors

product brand name  
design of the product  
special product feature

Class 74  
Enclosed soft starter with fusible disconnect switch  
Control transformer, built-in overload relay and bypass contactor included.

General technical data

weight [lb]	325 lb
Height x Width x Depth [in]	90 × 40 × 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	<a href="#">3RW44466BC34</a>
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-compliant startup
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
remote reset function	Yes
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	TRIP RESET, preset
configuration of relay output 1	ON-TIME MOTOR, preset
configuration of relay output 2	programmable
configuration of relay output 3	programmable
configuration of relay output 4	GROUP ERROR, preset
display version	Graphic display
operating measured value display	Yes
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
disconnecter functionality	Yes

#### Contactor

size of contactor	NA
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#### Coil

type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 50 Hz rated value	115 V
• at AC at 60 Hz rated value	115 V

#### Disconnect Switch

response value of switch disconnecter	600A / 600V
design of fuse holder	Class R fuse clips
operating class of the fuse link	Class R

#### 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

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
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	2x (3/0 ... 500 kcmil) or 2x (4/0 ... 500 kcmil)
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	75 °C

maximum permissible  
 material of the conductor for load-side outgoing feeder  
 type of electrical connection for auxiliary and control circuit  
 tightening torque [lbf·in] for auxiliary and control contacts  
 with screw-type terminals  
 type of connectable conductor cross-sections at AWG  
 cables for auxiliary and control contacts  
 temperature of the conductor for auxiliary and control  
 contacts maximum permissible  
 material of the conductor for auxiliary and control contacts

CU  
 Screw-type terminals  
 7 ... 10 lbf·in  
 2x (20 ... 14 AWG)  
 75 °C  
 CU

#### Short-circuit current rating

design of the fuse link for short-circuit protection of the  
 main circuit required  
 certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R, J or L)  
 NEMA ICS 2; UL 508A

#### Further information

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

[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:74NT320FAF>

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

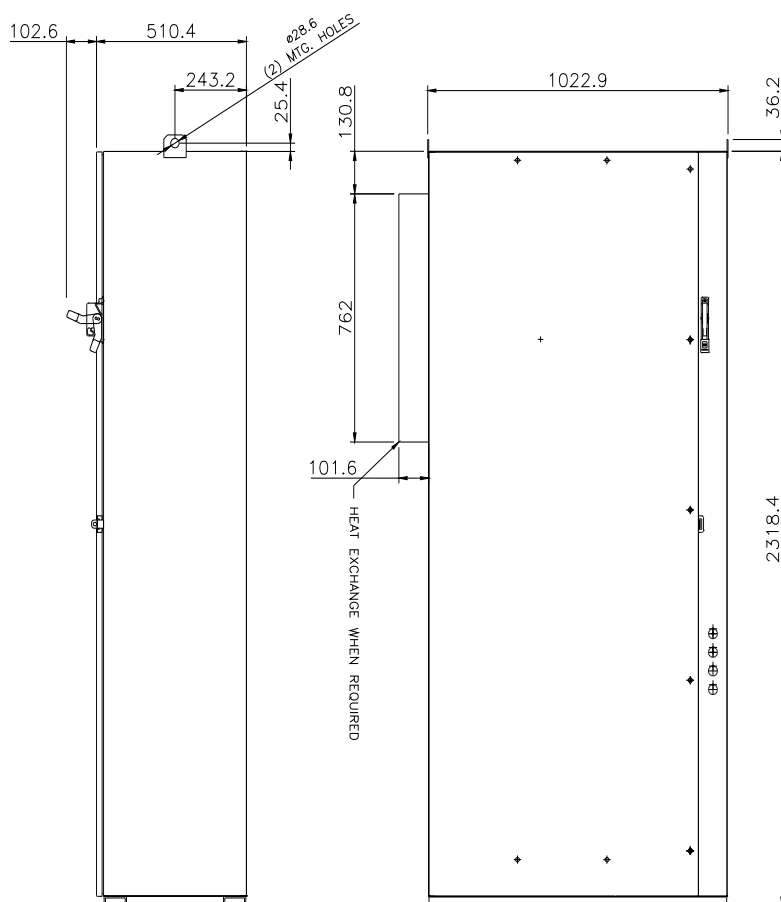
<https://support.industry.siemens.com/cs/US/en/ps/US2:74NT320FAF>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=US2:74NT320FAF&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:74NT320FAF&lang=en)

**Certificates/approvals**

<https://support.industry.siemens.com/cs/US/en/ps/US2:74NT320FAF/certificate>





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