SIEMENS

Data sheet US2:73CR340FA

Enclosed soft starter, Controller 3RW40271BB14, Std. duty rating 20Hp @460V, Std. duty current rating 29A, Control voltage 110-230 AC/DC, 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]	53 lb
Height x Width x Depth [in]	25 × 18 × 13 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	3RW40271BB14
number of poles for main current circuit	3
design of power semiconductors (thyristors) for soft starter control	2 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	NA
Features and functions	
ramp-up (soft starting)/ramp-down (soft stop)	Yes
starting voltage [%]	40 100 %
stopping voltage [%]	40 100 %
voltage ramp	Yes
ramp-up time	0 20 s
ramp-down time	0 20 s
torque control	No
adjustable current limitation	Yes
creep speed in both directions of rotation	No
pump ramp down	No
integrated bypass contact system	Yes
external isolation contactor	Yes
intrinsic device protection	Yes

overload protection	Yes
trip class	CLASS 5 / 15 / 20
reset function	Manual, automatic and remote
thermistor motor protection	No
inside-delta circuit	No
breakaway pulse	No
DC braking	No
combined braking	No
motor heating	No
configuration of control input 1	ON / OFF
configuration of control input 2	NA
configuration of control input 2	NA NA
configuration of control input 4	NA NA
	ON / RUN
configuration of relay output 1	
configuration of relay output 2	BYPASSED
configuration of relay output 3	OVERLOAD / FAILURE
configuration of relay output 4	NA
display version	4 LEDs
operating measured value display	No No
product extension optional human machine interface module	No
type of communication optional	None
error logbook	No
event list	No
slave pointer function	No
trace function	No
number of parameter sets	1
engineering software (Soft Starter ES)	No
disconnector functionality	No
Contactor	
size of contactor	NA
Coil	
type of voltage of the control supply voltage	AC/DC
type of voltage of the control supply voltage control supply voltage	AC/DC
control supply voltage	
control supply voltage • at DC rated value	110 230 V
control supply voltage • at DC rated value • at AC at 50 Hz rated value	110 230 V 110 230 V
control supply voltage	110 230 V
control supply voltage at DC rated value at AC at 50 Hz rated value at AC at 60 Hz rated value Enclosure	110 230 V 110 230 V 110 230 V
control supply voltage • at DC rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value Enclosure degree of protection NEMA rating	110 230 V 110 230 V 110 230 V
control supply voltage • at DC rated value • 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	110 230 V 110 230 V 110 230 V 12 NEMA Type 12
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use
control supply voltage at DC rated value 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	110 230 V 110 230 V 110 230 V 12 NEMA Type 12
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None
control supply voltage at DC rated value 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 Mounting/wiring mounting position	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m
control supply voltage at DC rated value 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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of electrical connection for supply voltage line-side	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m Box lug
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m
control supply voltage at DC rated value 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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m Box lug
control supply voltage at DC rated value 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 Mounting/wiring mounting position fastening method wire length between motor starter and motor maximum type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG
control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU
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control supply voltage	110 230 V 110 230 V 110 230 V 12 NEMA Type 12 dustproof and drip-proof for indoor use None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU Box lug 18 22 lbf·in 2x (14 10 AWG)

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 or J)
design of the short-circuit trip	Thermal magnetic circuit breaker
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	42 kA
• at 480 V	42 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=US2:73CR340FA

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

https://support.industry.siemens.com/cs/US/en/ps/US2:73CR340FA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:73CR340FA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:73CR340FA/certificate

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