## **SIEMENS**

product brand name

Data sheet US2:73HR340FA

Class 73

Enclosed soft starter, Controller 3RW40461BB14, Std. duty rating 50HP @460V, Std. duty current rating 73A Control voltage 110-230 AC/DC Enclosure NEMA type 12, Dust/drip proof for indoors



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]	57 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	3RW40461BB14		
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	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 No
inside-delta circuit	No
breakaway pulse	No No
DC braking	No No
combined braking	No
motor heating	No
configuration of control input 1	ON / OFF
configuration of control input 2	NA NA
configuration of control input 3	NA
configuration of control input 4	NA
configuration of relay output 1	ON / RUN
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
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
control supply voltage	
at DC rated value	110 230 V
,	110 230 V 110 230 V
at DC rated value	
<ul><li>at DC rated value</li><li>at AC at 50 Hz rated value</li></ul>	110 230 V
<ul> <li>at DC rated value</li> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> </ul>	110 230 V
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
at DC rated value     at AC at 50 Hz rated value     at AC at 60 Hz rated value      trace to the control of the enclosure  and the control of the enclosure	110 230 V 110 230 V NEMA Type 12
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical Surface mounting and installation
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical Surface mounting and installation 300 m
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical Surface mounting and installation 300 m Box lug
at DC rated value  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	110 230 V 110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical Surface mounting and installation 300 m
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at DC rated value  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 type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible material of the conductor for supply	110 230 V  110 230 V  NEMA Type 12 dustproof and drip-proof for indoor use None  Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG
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<ul> <li>at DC rated value</li> <li>at AC at 50 Hz rated value</li> <li>at AC at 60 Hz rated value</li> </ul> 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 type of connectable conductor cross-sections at line-side for 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 for AWG cables for load-side outgoing feeder type of connectable conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder 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 temperature of the conductor for auxiliary and control contacts maximum permissible temperature of the conductor for auxiliary and control contacts maximum permissible	110 230 V 110 230 V  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 58 58 lbf-in 3x (10 1/0 AWG) (front only) or 2x (10 1/0 AWG) (back only) or 1x (10 2/0 AWG) (both front & back) 75 °C CU Screw-type terminals 7 10 lbf-in
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circuit required	
design of the short-circuit trip	Thermal magnetic circuit breaker
maximum short-circuit current breaking capacity (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,...)

Industry Mall (Online ordering system)

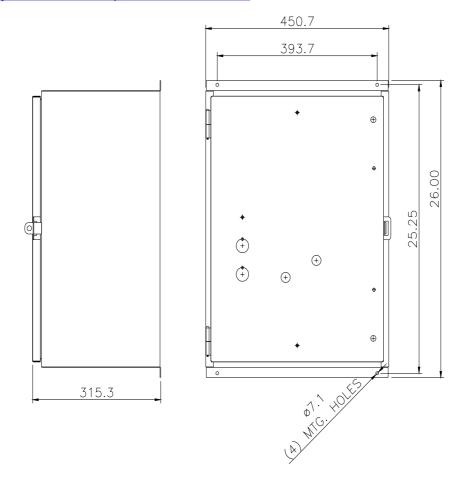
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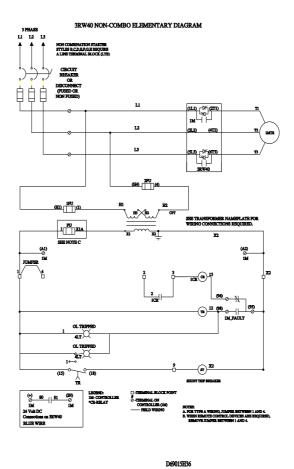
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:73HR340FA&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:73HR340FA&lang=en</a>

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:73HR340FA/certificate





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