## **SIEMENS**

product brand name

Data sheet US2:73ES340FA

Class 73

Enclosed soft starter, Controller 3RW40756BB34, Std. duty rating 250Hp @460V, Std. duty current rating 315A, Control voltage 115 AC, Non-combination type, 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]	106 lb	
Height x Width x Depth [in]	36 × 22 × 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	3RW40756BB34	
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	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 [%]	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	No	
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
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 3	NA NA
configuration of control input 4	NA
	ON / RUN
configuration of relay output 1	BYPASSED
configuration of relay output 2	
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
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 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	300 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 for	3/0 AWG 600 MCM (front only) or 250 500 MCM (back only) or 2x 2/0
AWG cables single or multi-stranded temperature of the conductor for supply maximum permissible	AWG 2x 500 MCM (both front & back) 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 for AWG cables	3/0 600 kcmil (front only) or 250 500 kcmil (back only) or 2x 500 kcmil
for load-side outgoing feeder single or multi-stranded temperature of the conductor for load-side outgoing feeder	(both front & back) AWG 75 °C
maximum permissible	OU.
material of the conductor for load-side outgoing feeder	CU
type of electrical connection for auxiliary and control circuit tightening torque [lbf-in] for auxiliary and control contacts with	screw-type terminals 7 10 lbf·in
screw-type terminals  temperature of the conductor for auxiliary and control contacts	75 °C
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	10kA@600V (Class H or K); 100kA@600V (Class R or J)
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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	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,...)

Industry Mall (Online ordering system)

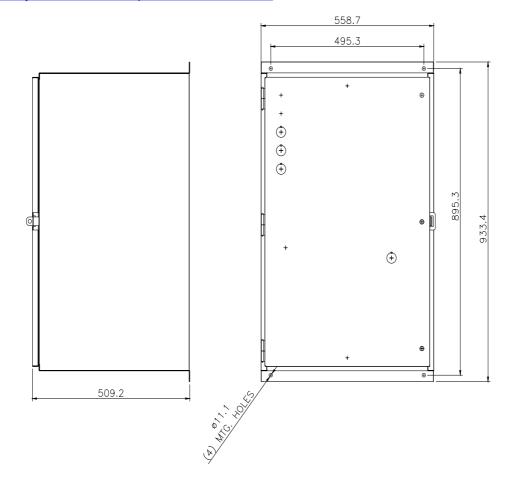
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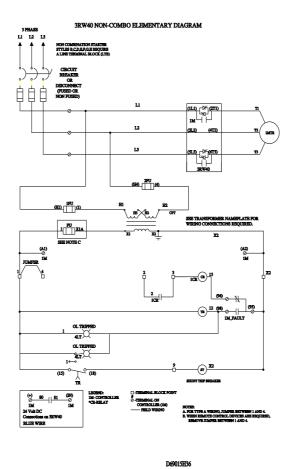
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:73ES340FA

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:73ES340FA&lang=en

Certificates/approvals

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