## SIEMENS

## Data sheet

## US2:73FR34BFA

Enclosed soft starter, Controller 3RW40371BB14, Std. duty rating 40Hp @460V, Std. duty current rating 58A, Control voltage 110-230 AC/DC, Noncombination type, Enclosure NEMA type 1, Indoor general purpose use



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]	56 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]	
<ul> <li>during storage</li> </ul>	-22 +149 °F
<ul> <li>during operation</li> </ul>	-4 +104 °F
ambient temperature	
<ul> <li>during storage</li> </ul>	-30 +65 °C
<ul> <li>during operation</li> </ul>	-20 +40 °C
country of origin	USA
Power and control electronics	
manufacturer's article number of soft starter	<u>3RW40371BB14</u>
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

Overland publication         In all           CLASS 5/15/20         CLASS 5/15/20           Teset function         Marvaid, automatic and remote           Inside-dafta circuit         No           Declassing         No           Combined braking         No           Combined braking         No           Combined braking         No           Configuration of control input 1         ON / OFF           configuration of control input 2         NA           configuration of control input 3         NA           configuration of control input 4         ON / FUN           configuration of relay output 3         OV FRUAD / FAILURE           configuration of relay output 3         OV FRUAD / FAILURE           configuration of relay output 4         NA           disperiment relay output 4         NA           disperiment relay output 4         NA           operating measured value display         No           product settersion optional human machine interface         No           size pointer function         No           size pointer function         No           size pointer function         No           contractor         No           disconeneaber function         No	overload protection	Yes
Test function         Menual, automatic and remote           Inside defla circuit         No           Denskoway pulse         No           Corbined tracking         No           Corbined tracking         No           continued tracking         No           product detraing neasured value display         No           product detraing neasured value display         No           figal yersion         4 LEDs           figal yersion         Achon           product detrain	· · ·	
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event list         No           slave pointer function         No           Itrace function         No           number of parameter sets         1           engineering software (Soft Starter ES)         No           disconnector functionality         No           Size of contactor         NA           Coil         Yppe of voltage of the control supply voltage           e other control supply voltage         AC/DC           control supply voltage         110 230 V           e at AC at 50 Hz rated value         110 230 V           e at AC at 50 Hz rated value         110 230 V           e at AC at 60 Hz rated value         110 230 V           e at AC at 60 Hz rated value         110 230 V           e degree of protection NEMA rating         1           degree of protection NEMA rating of the enclosure         NEMA Type 1           degree of protection NEMA rating of the enclosure         None           Mounting/wiring         300 m           mounting position         Vertical           type of connectable conductor cross-sections at 11e-side at AWC atbels single or multi-stranted         20 14 AWG           at AWC atbels single or multi-stranted         20 40 WG           tat AWC acables single or multi-stranted         20 40 W		
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           size of contactor         NA           Coll         Vipe of voltage of the control supply voltage           e at C rated value         110 230 V           • at AC at 50 Hz rated value         110 230 V           • at AC at 50 Hz rated value         110 230 V           • at AC at 50 Hz rated value         110 230 V           • at AC at 60 Hz rated value         110 230 V           • at AC at 60 Hz rated value         10 230 V           Enclosure         degree of protection NEMA rating of the enclosure           design of the housing         indoors, usable on a general basis           type of cooling         Nore           Mounting/wiring         Surface mounting and installation           wire length between motor starter and motor maximum         300 m           type of electrical connection for supply woltage line-side         20 14 AWG           tatAWG cables single or multi-stranded         20 40 LBrin           tatWire lingth between motor starter and motor		
trace function       No         number of parameter sets       1         engineering software (Soft Starter ES)       No         disconnector functionality       No         Contractor         Size of contactor         Control supply voltage         e at DC rated value       110 230 V         e at DC rated value       110 230 V         e at AC at 50 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         Enclosure       degree of protection NEMA rating of the enclosure         idegree of protection NEMA rating of the enclosure       NeMA Type 1         idegree of protection NEMA rating of the enclosure       None         Mounting/wiring       None         Mounting/wiring       Vertical         mounting position       Vertical         type of connectable conductor for supply voltage line-side       Z/0 14 AWG         dt AWC cables single or multi-standed       Z/0 44 WG         tatAWC cables single or		No
number of parameter sets       1         engineering software (Soft Starter ES)       No         disconnector functionality       No         Size of contactor       NA         Contactor       NA         Contactor       NA         Contactor       NA         Contactor       NA         Control supply voltage       AC/DC         • at DC rated value       10 230 V         • at AC at 60 Hz rated value       110 230 V         • at AC at 60 Hz rated value       110 230 V         degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NeMA Type 1         degree of protection NEMA rating of the enclosure       Indoors, usable on a general basis         type of cooling       None         Mounting/wring       Indoors, usable on a general basis         mounting position       Surface mounting and installation         wire length between motor starter and motor maximum       Box lug         type of electrical connection for supply voltage line-side       20 14 AWG         at AWG cables single or multi-stranded       27 C         material of the conductor for supply       CU         type of connectable conductor cross-sections at line-side       20 40 lbrin	slave pointer function	No
engineering software (Soft Starter ES)       No         disconnector functionality       No         Contactor       size of contactor         size of contactor       NA         Coll       Image: Control supply voltage         • at DC rated value       110 230 V         • at AC at 50 Hz rated value       110 230 V         • at AC at 60 Hz rated value       110 230 V         • at AC at 60 Hz rated value       110 230 V         e degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       mounting position         Vertical       Surface mounting and installation         wire length between metor starter and motor maximum       300 m         Itype of electrical connection for supply voltage line-side       20 14 AWG         at AWG cables single or multi-stranded       20 14 AWG         temperature of the conductor for supply       CU         Upp of electrical connection for load-side outgoing feeder       40 40 lbfin         Vpe of electrical connection for load-side outgoing feeder       40 40 lbfin         Vpe of onectable conductor for load		
disconnector functionality       No         Contactor       NA         Coll       Image: State of contractor         Size of contactor       NA         Coll       Image: State of control supply voltage         e at DC rated value       AC/DC         e at AC at 50 Hz rated value       110 230 V         e at AC at 50 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         Enclosure       Mediate in the interval in the interval	number of parameter sets	1
Contactor       NA         Coll	engineering software (Soft Starter ES)	No
size of contactor         NA           Coll	disconnector functionality	No
Coil       AC/DC         control supply voltage       AC/DC         e at DC rated value       110 230 V         e at AC at 50 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         e at AC at 60 Hz rated value       110 230 V         fefclosure       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring	Contactor	
type of voltage of the control supply voltage         AC/DC           control supply voltage         at DC rated value         110 230 V           • at AC at 50 Hz rated value         110 230 V           • at AC at 60 Hz rated value         110 230 V           • at AC at 60 Hz rated value         110 230 V           Enclosure         degree of protection NEMA rating         1           degree of protection NEMA rating of the enclosure         NEMA Type 1           design of the housing         indoors, usable on a general basis           type of cooling         None           Mounting/wiring         mounting position           type of electrical connection for supply voltage line-side         Box lug           type of electrical connection for supply voltage line-side         2/0 14 AWG           at AWG cables single or multi-stranded         2/0 14 AWG           temperature of the conductor for supply maximum         75 °C           material of the conductor for supply maximum         75 °C           tightening torque [lbf-in] for load-side outgoing feeder         40 40 lbf-in           type of connectable conductor cross-sections at AWG         18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2           temperature of the conductor for load-side outgoing feeder         40 40 lbf-in           temperat		NA
Control supply voltage         • at DC rated value         • at AC at 50 Hz rated value         • at AC at 50 Hz rated value         • at AC at 60 Hz rated value         • at AC at 60 Hz rated value         110 230 V <b>Enclosure</b> degree of protection NEMA rating of the enclosure         degree of protection NEMA rating of the enclosure         degree of protection NEMA rating of the enclosure         design of the housing         type of cooling         Mounting/wiring         mounting position         type of cooling         Work attring method         Surface mounting and installation         wire length between motor starter and motor maximum         300 m         type of conductor for supply voltage line-side         at AWG cables single or multi-stranded         temperature of the conductor for supply maximum permissible         material of the conductor for supply         type of connectable conductor cross-sections at AWG         tays of load-side outgoing feeder         type of connectable conductor cross-sections at AWG         tays of load-side outgoing feeder         type of connectable conductor cross-sections at AWG         tays of load-side outgoing feeder         type of connetable	size of contactor	NA
• at DC rated value       110 230 V         • at AC at 50 Hz rated value       110 230 V         • at AC at 60 Hz rated value       110 230 V         Enclosure       110 230 V         degree of protection NEMA rating       1         design of the housing       Indoors, usable on a general basis         type of cooling       None         Mounting/wiring       00 m         mounting position       Vertical         fastening method       Surface mounting and installation         wire length between motor starter and motor maximum       300 m         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       Exp (20 14 AWG         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       40 40 lbf in         type of connectable conductor cross-sections at AWG cables in light or multi-stranded       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder       40 40 lbf in         type of connectable conductor for load-side outgoing feeder       40 40 lbf in         temperature of the conductor for load-side outgoing feeder       40 40 lbf in         temperature of the conductor for load-side outgoing fe		INA
• at DC rated value       110 230 V         • at AC at 50 Hz rated value       110 230 V         • at AC at 60 Hz rated value       110 230 V         Enclosure       110 230 V         degree of protection NEMA rating       1         design of the housing       Indoors, usable on a general basis         type of cooling       None         Mounting/wiring       00 m         mounting position       Vertical         fastening method       Surface mounting and installation         wire length between motor starter and motor maximum       300 m         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       Exp (20 14 AWG         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       40 40 lbf in         type of connectable conductor cross-sections at AWG cables in light or multi-stranded       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder       40 40 lbf in         type of connectable conductor for load-side outgoing feeder       40 40 lbf in         temperature of the conductor for load-side outgoing feeder       40 40 lbf in         temperature of the conductor for load-side outgoing fe	Coil	
• at AC at 60 Hz rated value       110 230 V         Enclosure       degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       mounting position         fastening method       Surface mounting and installation         wire length between motor starter and motor maximum       300 m         type of colles conductor for supply voltage line-side       Box lug         type of connectable conductor for supply woltage line-side       2/0 14 AWG         at AWG cables single or multi-stranded       75 °C         temperature of the conductor for supply       CU         type of connectable conductor for supply       CU         type of connectable conductor for supply       CU         material of the conductor for supply       CU         tightening torque [lbf in] for load-side outgoing feeder       Box lug         tightening torque [lbf in] for load-side outgoing feeder       40 40 lbf-in         type of connectable conductor for supple or multi-stranded       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         tarded       75 °C       20 41 AWG         tarting fo	Coil type of voltage of the control supply voltage	
• at AC at 60 Hz rated value       110 230 V         Enclosure       degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       mounting position         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         type of connectable conductor for supply woltage line-side       2/0 14 AWG         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       CU         type of connectable conductor for supply       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         tightening torque [Ibf in] for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       40 40 lbf-in         type of connectable conductor for supple       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         atlanded       75 °C       AWG) (both front & back)	Coil type of voltage of the control supply voltage control supply voltage	AC/DC
Enclosure         degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       None         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         type of connectable conductor cross-sections at line-side       2/0 14 AWG         at AWG cables single or multi-stranded       Z/0 14 AWG         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       40 40 lbf-in         type of connectable conductor cross-sections at AWG       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         stranded       temperature of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         tightening torque [lbf-in] for load-side outgoing feeder       75 °C <t< td=""><td>Coil type of voltage of the control supply voltage control supply voltage • at DC rated value</td><td>AC/DC 110 230 V</td></t<>	Coil type of voltage of the control supply voltage control supply voltage • at DC rated value	AC/DC 110 230 V
degree of protection NEMA rating       1         degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       None         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         type of connectable conductor cross-sections at line-side       2/0 14 AWG         at AWG cables single or multi-stranded       75 °C         material of the conductor for supply       CU         type of connectable conductor cross-sections at AWG       Box lug         tightening torque [lbf:n] for load-side outgoing feeder       40 40 lbf:in         type of connectable conductor cross-sections at AWG       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2         cables for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       40 40 lbf:in         twgG (both front & back)       18 2 AWG (back only) or 2x (16 2         AWG) (both front & back)<	Coil type of voltage of the control supply voltage control supply voltage • at DC rated value • at AC at 50 Hz rated value	AC/DC 110 230 V 110 230 V
degree of protection NEMA rating of the enclosure       NEMA Type 1         design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       None         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 at AWG cables single or multi-stranded       Box lug         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor cross-sections at AWG cables for load-side outgoing feeder       Box lug         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       Box lug         tightening torque [lbf-in] for load-side outgoing feeder       Box lug         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       40 40 lbf-in         type of connectable conductor for supply       CU         type of connectable conductor for load-side outgoing feeder       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         tightening torque [lbf-in] for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor fo	Coil type of voltage of the control supply voltage control supply voltage • at DC rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value	AC/DC 110 230 V 110 230 V
design of the housing       indoors, usable on a general basis         type of cooling       None         Mounting/wiring       None         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         type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded       2/0 14 AWG         temperature of the conductor for supply maximum permissible       75 °C         material of the conductor for supply       CU         type of connectable conductor cross-sections at AWG cables or load-side outgoing feeder       40 40 lbf-in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         temperature of the conductor cross-sections at AWG cables for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor for load-side outgoing feeder       75 °C         material of the conductor fo	Coil type of voltage of the control supply voltage control supply voltage • at DC rated value • at AC at 50 Hz rated value • at AC at 60 Hz rated value Enclosure	AC/DC 110 230 V 110 230 V 110 230 V
type of cooling       None         Mounting/wiring       Vertical         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         type of connectable conductor cross-sections at line-side       2/0 14 AWG         at AWG cables single or multi-stranded       75 °C         material of the conductor for supply maximum       75 °C         material of the conductor for supply       CU         type of connectable conductor cross-sections at AWG       8 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2         tightening torque [lbf-in] for load-side outgoing feeder       75 °C         temperature of the conductor cross-sections at AWG       8 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2         cables for load-side outgoing feeder       75 °C         temperature of the conductor for load-side outgoing feeder       40 40 lbf-in         temperature of the conductor for load-side outgoing feeder       75 °C         maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       75 °C	Coil type of voltage of the control supply voltage 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	AC/DC 110 230 V 110 230 V 110 230 V 1
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 at AWG cables single or multi-stranded         Box lug           temperature of the conductor for supply maximum permissible         75 °C           material of the conductor for supply         CU           type of connectable conductor cross-sections at AWG cables single or multi-stranded         Box lug           temperature of the conductor for supply         CU           type of electrical connection for load-side outgoing feeder         Box lug           tightening torque [lbf-in] for load-side outgoing feeder         40 40 lbf-in           type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded         18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)           temperature of the conductor for load-side outgoing feeder maximum permissible         75 °C	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1
mounting positionVerticalfastening methodSurface mounting and installationwire length between motor starter and motor maximum300 mtype of electrical connection for supply voltage line-sideBox lugtype of electrical connector cross-sections at line-side at AWG cables single or multi-stranded2/0 14 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- strandedRue 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Ctemperature of the conductor cross-sections at AWG cables for load-side outgoing feeder maximum permissible18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)material of the conductor for load-side outgoing feeder maximum permissible75 °C	Coil type of voltage of the control supply voltage 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	AC/DC 110 230 V 110 230 V 110 230 V 1 NEMA Type 1 indoors, usable on a general basis
fastening methodSurface mounting and installationwire length between motor starter and motor maximum300 mtype of electrical connection for supply voltage line-sideBox lugtype of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded2/0 14 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyCUtype of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feederBox lugtype of connectable conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder80 klugtype of connectable conductor for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feeder80 klugtype of connectable conductor for load-side outgoing feeder stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder maximum permissible75 °C	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 1 NEMA Type 1 indoors, usable on a general basis
wire length between motor starter and motor maximum300 mtype of electrical connection for supply voltage line-side at AWG cables single or multi-strandedBox lug2/0 14 AWG2/0 14 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyCUtype of electrical connection for load-side outgoing feeder tightening torque [lbf·in] for load-side outgoing feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder stranded80x lugtype of connectable conductor for load-side outgoing feeder40 40 lbf·intype of connectable conductor for load-side outgoing feeder18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder600 40 lbf·intemperature of the conductor for load-side outgoing feeder maximum permissible75 °Ctemperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder material of the conductor for load-side outgoing feeder75 °C	Coil type of voltage of the control supply voltage 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	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None
type of electrical connection for supply voltage line-side type of connectable conductor cross-sections at line-side at AWG cables single or multi-strandedBox lug2/0 14 AWG remrissible2/0 14 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyCUtype of electrical connection for load-side outgoing feeder tightening torque [lbf-in] for load-side outgoing feederBox lugtype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder temperature of the conductor for load-side outgoing feeder maximum permissible75 °C	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1110 240 V 1110 24
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded2/0 14 AWGtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyCUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder40 40 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder75 °Cmaterial of the conductor for load-side outgoing feeder75 °C	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation
at AWG cables single or multi-strandedtemperature of the conductor for supply maximum permissible75 °Cmaterial of the conductor for supplyCUtype of electrical connection for load-side outgoing feederBox lugtightening torque [lbf·in] for load-side outgoing feeder40 40 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feeder75 °C	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m
permissible       CU         material of the conductor for supply       CU         type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf·in] for load-side outgoing feeder       40 40 lbf·in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       CU	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1110 23
type of electrical connection for load-side outgoing feeder       Box lug         tightening torque [lbf·in] for load-side outgoing feeder       40 40 lbf·in         type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multistranded       18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       CU	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1110 23
tightening torque [lbf·in] for load-side outgoing feeder40 40 lbf·intype of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCU	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi- stranded18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)temperature of the conductor for load-side outgoing feeder maximum permissible75 °Cmaterial of the conductor for load-side outgoing feederCU	Coil         type of voltage of the control supply voltage         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	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 110 230 V 110 230 V Vertical None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C
cables for load-side outgoing feeder single or multi- stranded       AWG) (both front & back)         temperature of the conductor for load-side outgoing feeder maximum permissible       75 °C         material of the conductor for load-side outgoing feeder       CU	Coil         type of voltage of the control supply voltage         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         material of the conductor for supply	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU
maximum permissible material of the conductor for load-side outgoing feeder CU	Coil         type of voltage of the control supply voltage         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         material of the conductor for supply	AC/DC 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU Box lug
	Coil         type of voltage of the control supply voltage         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         material of the conductor for supply         type of electrical connection for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         tightening torque [lbf-in] for load-side outgoing feeder         type of connectable conductor cross-sections at AWG         cables for load-side outgoing feeder	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU Box lug 40 40 lbf-in 18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2
type of electrical connection for auxiliary and control circuit	Coil         type of voltage of the control supply voltage         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         material of the conductor for supply         type of connectable conductor cross-sections at line-side         at AWG cables single or multi-stranded         temperature 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 at AWG         cables for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         type of connectable conductor for load-side outgoing fee	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU Box lug 40 40 lbf-in 18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back)
type of elevation connection for duvinary and control circuit.	Coil         type of voltage of the control supply voltage         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         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 at AWG         cables for load-side outgoing feeder         type of connectable conductor cross-sections at AWG         cables for load-side outgoing feeder single or multi-stranded         temperature of the conductor for load-side outgoing feeder         type of connectable conductor for load-side outgoing feeder         type of connectable conductor for load-side	AC/DC 110 230 V 110 230 V 110 230 V 110 230 V 1 1 NEMA Type 1 indoors, usable on a general basis None Vertical Surface mounting and installation 300 m Box lug 2/0 14 AWG 75 °C CU Box lug 40 40 lbf-in 18 2 AWG (front only) or 16 2 AWG (back only) or 2x (16 2 AWG) (both front & back) 75 °C

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=US2:73FR34BFA

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

https://support.industry.siemens.com/cs/US/en/ps/US2:73FR34BFA

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=US2:73FR34BFA&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:73FR34BFA/certificate



D69015H36

last modified:

1/25/2022 🖸