DATASHEET - DS7-342SX032N0-N



Soft starter, 32 A, 200 - 480 V AC, Us= 110 - 230 V AC, Frame size FS2



Part no.DS7-342SX032N0-NCatalog No.134932Alternate CatalogDS7-342SX032N0-NNo.EL-Nummer4134273(Norway)

Delivery program

Function Image: State of the second				
Mains supply voltage (50/60 Hz) VAC VAC 00 - 480 Supply voltage Us I 10 - 230 V AC Control voltage Uc I 10 - 230 V AC Assigned motor rating (Standard connection, In-Line) V V Io - 230 V AC at 400 V, 50 Hz PAC KW Iscance at 460 V, 60 Hz PAC KW Iscance Ac-53 PAC PAC Image: Participational current Ac-53 Image: Participational voltage Image: Participational voltage Image: Participational voltage Rated operational voltage Image: Participational voltage Image: Participational voltage Image: Participational voltage Connection to SmartWire-DT Image: Participational voltage Image: Participational voltage Image: Participational voltage	Description			With internal bypass contacts
Supply voltage Us In - 230 V AC Control voltage Uc In - 230 V AC Assigned motor rating (Standard connection, In-Line) In - 230 V AC at 400 V, 50 Hz P KW at 460 V, 60 Hz P F Ac-53 P F Ac-53 Ie A Rated operational voltage Ie A Ve Supply voltage Supply voltage Connection to SmartWire-DT Image: Supply voltage Supply voltage	Function			Soft starters for three-phase loads
Control voltage UC ID - 230 VAC Assigned motor rating (Standard connection, In-Line) MW 10 - 230 VAC at 400 V, 50 Hz P KW 50 at 400 V, 60 Hz P HP 25 Rated operational current HP S S AC-53 Ie A 32 Rated operational voltage Ve Me 200 V Operational voltage Ve Me S Connection to SmartWire-DT Me Me Sono Ve	Mains supply voltage (50/60 Hz)	U _{LN}	V AC	200 - 480
Assigned motor rating (Standard connection, In-Line) No No at 400 V, 50 Hz Pa KW 5 at 460 V, 60 Hz Pa HP 5 Rated operational current Ie Ac-53 Ie Ac Reted operational voltage Ve Ye 50 Connection to SmartWire-DT Ie Ie Ie	Supply voltage	Us		110 - 230 V AC
at 400 V, 50 Hz PA KW 5 at 400 V, 60 Hz PA PA PA Sate	Control voltage	U _C		110 - 230 V AC
at 460 V, 60 HzPPPPPRated operational currentIIAC-53IeARated operational voltageUIConnection to SmartWire-DTII	Assigned motor rating (Standard connection, In-Line)			
Rated operational current Image: Mathematical constraints of the second constraints of the s	at 400 V, 50 Hz	Р	kW	15
AC-53IeA32Rated operational voltageUeVeSolutional voltageConnection to SmartWire-DTImage: Solutional voltageImage: Solutional voltage<	at 460 V, 60 Hz	Ρ	HP	25
Rated operational voltage Ue 20 Vertical voltage Connection to SmartWire-DT Image: Connection voltage Image: Connection voltage	Rated operational current			
Connection to SmartWire-DT Image: Connection to SmartWire-DT	AC-53	le	Α	32
	Rated operational voltage	U _e		230 V 400 V
	Connection to SmartWire-DT			no
Frame size FS2	Frame size			FS2

Technical data

General			
Standards			IEC/EN 60947-4-2 UL 508 CSA22.2-14
Approvals			CE
Approvals			UL CSA C-Tick UkrSEPRO
Climatic proofing			Damp heat, constant, to IEC 60068-2-3 Damp heat, cyclic, to IEC 60068-2-10
Ambient temperature			
Operation	θ	°C	-5 - +40 up to 60 at 2% derating per Kelvin temperature rise
Storage	θ	°C	-25 - +60
Altitude		m	0 - 1000 m, above that 1 % derating per 100 m , up to 2000 m
Mounting position			Vertical
Degree of protection			
Degree of Protection			IP20
Protection against direct contact			Finger- and back-of-hand proof
Overvoltage category/pollution degree			11/2
Shock resistance			8 g/11 ms
Vibration resistance to EN 60721-3-2			2M2
Radio interference level (IEC/EN 55011)			A
Static heat dissipation, non-current-dependent	P _{vs}	W	1.5
Weight		kg	0.45
Main conducting paths			
Rated operating voltage	U _e	V AC	200 - 480

Supply frequency	f _{LN}	Hz	50/60
Rated operational current		A	
AC-53	l _e	A	32
	l _e	A	32
Assigned motor rating (Standard connection, In-Line)	D	134/	77
at 230 V, 50 Hz	P	kW	7.5
at 400 V, 50 Hz	P	kW	15
at 200 V, 60 Hz	P	HP	10
at 230 V, 60 Hz	P P	HP HP	10 26
at 460 V, 60 Hz	r	пr	25
Overload cycle to IEC/EN 60947-4-2 AC-53a			22.4.4.0 52
			32 A: AC-53a: 3 - 5: 75 - 10
Internal bypass contacts			
Short-circuit rating Type "1" coordination			PKM0-32 (+ CL-PKZ0)
			3 x 170M1366
Type "2" coordination (additional with the fuses for coordination type "1")			3 x 1/0011300
Fues here (sumher a series)			2
Fuse base (number x part no.) Terminal capacities			3 x 170H1007
Cable lengths			
Solid		mm ²	1 x (0.75 - 16) 2 x (0.75 - 10)
Flexible with ferrule		mm ²	1 x (0.75 - 16) 2 x (0.75 - 10)
Stranded		mm ²	1 x 16
Solid or stranded		AWG	18 - 6
Tightening torque		Nm	3.2
Screwdriver (PZ: Pozidriv)		mm	PZ2; 1 x 6 mm
Control cables			
Solid		mm ²	1 x (0.5 - 2.5) 2 x (0.5 - 1.0)
Flexible with ferrule		mm ²	1 x (0.5 - 1.5) 2 x (0.5 - 0.75)
Stranded		mm ²	1 x (0.5 - 1.5) 2 x (0.5 - 1.0)
Solid or stranded		AWG	1 x (21 - 14) 2 x (21 - 18)
Tightening torque		Nm	1.2
Screwdriver		mm	0,8 x 5,5 1 x 6
Control circuit			
Digital inputs			
Control voltage			
AC operated		V AC	110 V AC - 15 % - 230 V AC +10 %
Current consumption 24 V		mA	
External 24 V		mA	1.6
Current consumption 230 V		mA	4
Pick-up voltage		x U _s	
AC operated		V AC	108 - 253
Drop-out voltage	x U _s		
AC operated		V AC	0 - 15
Pick-up time			
AC operated		ms	250
Drop-out time			
AC operated		ms	350
Regulator supply			
Voltage	Us	v	110 V AC -15 % - 230 V AC +10 %
Current consumption	l _e	mA	50
Notes			External supply voltage

Relay outputs		
Number		2 (TOR, Ready)
Voltage range	V AC	250
AC-11 current range	А	1 A, AC-11
Soft start function		
Ramp times		
Acceleration	S	1 - 30
Deceleration	S	0 - 30
Start voltage (= turn-off voltage)	%	30 100
Start pedestal	%	30 - 100
Fields of application		
Fields of application		Soft starting of three-phase asynchronous motors
1-phase motors		•
3-phase motors		1
Functions		
Fast switching (semiconductor contactor)		- (minimum ramp time 1s)
Soft start function		✓
Reversing starter		External solution required
Suppression of closing transients		1
Suppression of DC components for motors		1
Potential isolation between power and control sections		<i>J</i>
Notes		

Rated impulse withstand voltage:

1.2 µs/50 µs (rise time/fall time of the pulse to IEC/EN 60947-2 or -3)
Applies for control circuit/power section/enclosure

Design verification as per IEC/EN 61439

Rated operational current for specified heat dissipationInA32Heat dissipation per pole, current-dependentPvidV0Equipment heat dissipation, current-dependentPvidV1.5Static heat dissipation, non-current-dependentPvsV1.5Heat dissipation capacityPdissV0Operating ambient temperature min.°C-5Operating ambient temperature max.°C40				
Heat dissipation pe pole, current-dependent Point Weint Meat dissipation, current-dependent Point Weint Scatcheat dissipation, current-dependent Point Scatcheat dissipation, current-dependent	Technical data for design verification			
Equipment het dissipation, current-dependent Poil Poil Second Static het dissipation, current-dependent Poil Second Second apply, since the entire switchgare	Rated operational current for specified heat dissipation	In	А	32
Static heat dissipation, on-current-dependent Pairs W 15 Beta dissipation, on-current-dependent Pairs W 0 Operating ambient temperature min. Pairs PC	Heat dissipation per pole, current-dependent	P _{vid}	W	0
Heat dissipation capeoity Pairs We Operating ambient temperature min. "C 5 Operating ambient temperature max. "C 40 162.2 Kondski seign verification "C 40 162.2 Corrosion resistance "C Meets the product standard's requirements. 102.2 Corrosion resistance Meets the product standard's requirements. Meets the product standard's requirements. 102.3.1 Verification of thermal stability of enclosures Meets the product standard's requirements. Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to normal heet Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heet Meets the product standard's requirements. 102.3.2 Verification of resistance of insulating materials to abnormal heet Meets the product standard's requirements. 102.5.2 Verification of resistance of insulating materials to abnormal heet Meets the product standard's requirements. 102.5 Protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric shock Meets the product standard's requirements. 10.5 Protection against electric shock Meets the product stan	Equipment heat dissipation, current-dependent	P _{vid}	W	1.5
Operating ambient temperature max. *	Static heat dissipation, non-current-dependent	P _{vs}	W	1.5
Operating ambient temperature max. *C 4 ID2 Strength of materials and parts Meets the product standard's requirements. 102.21 Verification of themal stability of enclosures Meets the product standard's requirements. 102.32 Verification of resistance of insulating materials to normal heat affire due to internal electric effects Meets the product standard's requirements. 102.22 Verification of resistance of insulating materials to abnormal heat affire due to internal electric effects Meets the product standard's requirements. 102.24 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 102.25 Lifting Meets the product standard's requirements. 102.26 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 102.27 Inscriptions Does not apply, since the entire switchgear needs to be evaluated. 103.20 gree of protection of ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated. 104.21 floarciptions Does not apply, since the entire switchgear needs to be evaluated. 105.Protection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 104.21 floarciptions Does not apply, since the entire switchgear needs to be evaluated. 104.51 floarcipticon of switching devices and components	Heat dissipation capacity	P _{diss}	W	0
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102 Strength or materials and partsMets the product standard's requirements.102.3.1 Verification of thermal stability of enclosuresMets the product standard's requirements.102.3.2 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effectsMets the product standard's requirements.102.4 Resistance to ultra-violet (UV) radiationMets the product standard's requirements.102.5 LiftingDoes not apply, since the entire switchgear needs to be evaluated.102.7 InscriptionsDoes not apply, since the entire switchgear needs to be evaluated.103.2 Degree of protection of ASSEMBLIESDoes not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesDoes not apply, since the entire switchgear needs to be evaluated.10.5 Protection against electric shockDoes not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDoes not apply, since the entire switchgear needs to be evaluated.10.7 Internal electric aircuits and connectionsSt the panel builder's responsibility.10.8 Connections for external conductorsSt the panel builder's responsibility.10.9 Insulation propertiesSt the panel builder's responsibility.10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltageSt the panel builder's responsibility.10.9.3 Impulse withstand voltageSt the panel builder's responsibility.	Operating ambient temperature max.		°C	40
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10.6 Incorporation of switching devices and components Image: Component State Co	10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.7 Internal electrical circuits and connections Image: Connections for external conductors Is the panel builder's responsibility. 10.8 Connections for external conductors Image: Connections for external conductors Is the panel builder's responsibility. 10.9 Insulation properties Image: Connections for external conductors Image: Connections for external conductors 10.9.2 Power-frequency electric strength Image: Connections for external conductors Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage Image: Connections for external conductors Is the panel builder's responsibility.	10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
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10.9 Insulation properties Image: Constraint of the panel builder's responsibility. 10.9.2 Power-frequency electric strength Image: Constraint of the panel builder's responsibility. 10.9.3 Impulse withstand voltage Image: Constraint of the panel builder's responsibility.	10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength Image: Comparison of the panel builder's responsibility. 10.9.3 Impulse withstand voltage Image: Comparison of the panel builder's responsibility.	10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	10.9 Insulation properties			
	10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.	10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
	10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.

10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Soft starter (EC000640)				
Electric engineering, automation, process control engineering / Low-voltage switch technology / Load breakout, motor breakout / Semiconductor motor controller or soft starter (ecl@ss10.0.1-27-37-09-07 [AC0300011])				
Rated operation current le at 40 °C Tu	/	A	32	
Rated operating voltage Ue	١	V	230 - 460	
Rated power three-phase motor, inline, at 230 V	ł	kW	7.5	
Rated power three-phase motor, inline, at 400 V	ł	kW	15	
Rated power three-phase motor, inside delta, at 230 V	ł	kW	0	
Rated power three-phase motor, inside delta, at 400 V	ł	kW	0	
Function			Single direction	
Internal bypass			Yes	
With display			No	
Torque control			No	
Rated surrounding temperature without derating	c	°C	40	
Rated control supply voltage Us at AC 50HZ	١	V	110 - 230	
Rated control supply voltage Us at AC 60HZ	١	V	110 - 230	
Rated control supply voltage Us at DC	١	V	0 - 0	
Voltage type for actuating			AC	
Integrated motor overload protection			No	
Release class			Other	
Degree of protection (IP)			IP20	
Degree of protection (NEMA)			1	

Approvals

Product Standards	IEC/EN 60947-4-2; GB 14048.6; UL 508; CSA-C22.2 No 0-M91; CSA-C22.2 No 14-05 CE marking
UL File No.	E251034
CSA File No.	2511305
CSA Class No.	321106
Specially designed for North America	No
Suitable for	Branch circuits
Current Limiting Circuit-Breaker	No
Max. Voltage Rating	480 V
Degree of Protection	IP20; UL/CSA Type 1



