Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor	type :	1AV31	64A			S	IMOTICS GF	9 - 160 L	- IM B3 -	- 2p					-			
						Item-No.					Offer	Offer no.						
Order no.					C	Consignment no.					Proje	Project						
Remarks					I							e Area						
Electric	al data	а									-/-	e Area						
U	Δ/Υ	f	Р	Р	I	n	М		η 3)	1		cosφ	1	I _A /I _N		$M_{\rm K}/M_{\rm N}$	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T_B/T_N		
			1				OL duty (S1)	1		(B)	1			1			1	
380	Δ	50	18.50	-/-	34.00	2955	60.0	92.4	92.8	92.4	0.90	0.87	0.80	9.0	2.8	4.2	IE3	
660	Y	50	18.50	-/-	19.50	2955	60.0	92.4	92.8	92.4	0.90	0.87	0.80	9.0	2.8	4.2	IE3	
440	Δ	60	21.30	- -	33.50	3555	57.0	91.7	91.5	90.3	0.91	0.88		9.0	2.6	4.2	IE3	
440	Δ	60	18.50	-/-	29.50	3560	49.5	91.7	91.5	90.3	0.89	0.86		10.2	3.0	4.8	IE3	
IM B3 / IM 1001 FS 160 L						IP55 UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN						(hot / cold) : 13.5 s 19.9 s						
		Enviror	nmental co	nditions :	-40 °C - +4	40 °C / 10	000 m			Lo	cked roto	or time	(hot / col	d):13.	5 s 19.9	S		
Mecha	nical d	ata																
Sound level (SPL / SWL) at 50Hz 60Hz 70 / 82 dB(A) ^{2) 3)} 77 / 89 dB(A) ^{2) 3)} Vibration severity grade A																		
Momen	nt of ine	rtia			0.	.0680 kg m ²	2	The	rmal class			F						
Bearing	J DE NI	DE		6	5209 2Z C3	3 6209 2Z C3 Duty type					S1							
bearing lifetime								Dire	Direction of rotation				bidirectional					
L _{10mh} F _R 50160H	Rad min for	^r couplin	ig operation		40000 h		32000 h	Fran	Frame material				aluminum					
	sing dev				١	Without		Net	Net weight of the motor (IM B3)				B3) 94 kg					
Grease nipple						-/-		Coa	Coating (paint finish)				Standard paint finish C2					
					Locati	ating bearing NDE Co			Color, paint shade				RAL7030					
									Motor protection				(A) without (Standard)					
External earthing terminal						With	ethod of cooling				IC411 - self ventilated, surface cooled							
										5								
Termin																		
Terminal box position						top Max. cross-sectional area					16 mm ²							
Material of terminal box						Aluminium Cable diameter from to					to							
Type of terminal box						TB1 J00 Cable entry						2xM40x1,5-1xM16x1,5						
Contact screw thread						M5 Cable gland									3 plugs			
$M_A/M_N = loc$ $M_K/M_N = bre$	cked rotor t eak down t	orque / torc orque / nom	ent nominal que nominal ninal torque nination and/or ed	2)) L _{10mh} according) at rated power	r / at full load	10/2010 ts contents and con	nmunication t	hereof to oth				DL operation wi			for paymer	nt of	
			tent grant or regis							cis maiout	express during		promoted of			i or paymen		
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS Motor type : 1AV3164A SIMOTICS GP - 160 L - IM B3 - 2p Special design H04 External grounding at housing B02 Acceptance test certificate 3.1 acc. to EN 10204 N30 Increased air humidity/temperature with 30 to 60 g water per m3 air D03 Minimum ambient temperature -40°C Q02 Anti-condensation heating for 230 V (2 terminals) F76 Metal external fan Additional information: Space heaters Technical data: 1-phase, 230 V 50W Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved. Responsible department Technical reference Created by Approved by Technical data are subject to change! There may be Link documents

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