

ABB BALDOR RELIANCE III

Customer information packet

SPM31159

1.5HP, 1175RPM, 3PH, 60HZ, 182T, 3640M, ODP, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE NEMA PREMIUM 4
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.500 A @ 460.0 V 5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	36P395
Base	
Status	PRD/A
Elec. spec.	36WGR643
Layout	36LYP395
Eff. date	06-07-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	09-07-2023

Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3640M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.49 IN
Power Factor	63
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1175 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4423A01A01L													
CAT #	SPM31159					WGT	90	LBS					
SPEC	36P395R643					ENCL	ODP						
SER #						CC	010A	IP	23				
HP	1.5	MAG CUR				3.4/1.7							
VOLTS	230/460					NEMA NOM. EFF					88.5		
AMPS	5/2.5						PF	63					
RATING	40C AMB-CONT												
RPM	1175					MAX RPM		1800					
FRAME	182T	HZ	60	CODE		M	CLASS		F				
SER.F.	1.15	SF AMP	5.5/2.75				PH	3	DES	B			
DE	6206		ODE	6205									
LUBRICATION	POLYREX EM												
ID LOGO	INVERTER TYPE			VPWM		CHP	60	TO	90	1.5:1			
ID LOGO	WK2	0.376	CT	6	TO	60	10:1						
ID LOGO	SL HZ	1.25	VT	3	TO	60	20:1						
							QR						
YR													

AC Induction Motor Performance Data

Record # 100913

Typical performance - not guaranteed values

Winding: 36WGR643-R004			Type: 3640M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		6.69 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		5/2.5	Breakdown Torque		28.1 LB-FT	
R.P.M.		1175	Pull-up Torque		15 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		19.6 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		19.2 A
Service Factor (S.F.)		1.15	No-load Current		1.69 A	
NEMA Nom. Eff.		88.5	Power Factor	Line-line Res. @ 25°C		5.99 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C
S.F. Amps		5.5/2.75		Temp. Rise @ S.F. Load		46°C
				Locked-rotor Power Factor		29.1
				Rotor inertia		0.376 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	43	55	63	68	72	66
Efficiency	76.1	85.2	87.7	88.5	88.4	88	88.4
Speed	1196	1191	1184	1178	1170	1163	1173
Line amperes	1.75	1.94	2.2	2.52	2.9	3.34	2.75

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WINDING # 36WGR643

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1175 RPM 460 V 3640M

TORQUES (LB-FT): PO=28.1 PU=15 LR=19.6 LRA=19.2





