

ABB BALDOR RELIANCE III

Customer information packet

CSWDM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3518M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UR
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	2.300 A @ 208.0 V 2.200 A @ 230.0 V 1.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	35S630
Base	
Status	PRD/A
Elec. spec.	35WGT097
Layout	35LYS630
Eff. date	09-11-2023
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-19-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.06 IN
Power Factor	80
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 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

NP1496L											
CAT.NO.	CSWDM3541										
SPEC.	35S630T097G1										
HP	.75										
VOLTS	208-230/460										
AMP	2.3-2.2/1.1										
RPM	3450										
FRAME	56C		HZ	60			PH	3			
SER.F.	1.25		CODE	N	DES	B	CLASS	F			
NEMA-NOM-EFF	80		PF	80							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TENV		SN								
	SFA 2.8-2.6/1.3										

AC Induction Motor Performance Data

Record # 36638

Typical performance - not guaranteed values

Winding: 35WGT097-R002			Type: 3518M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.75	Full Load Torque		1.1 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		2.3-2.2/1.1	Breakdown Torque		7.6 LB-FT		
R.P.M.		3450	Pull-up Torque		4.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		5.6 LB-FT	
NEMA Design Code		B	KVA Code	N	Starting Current		11.7 A
Service Factor (S.F.)		1.25	No-load Current		0.61 A		
NEMA Nom. Eff.		80	Power Factor	80	Line-line Res. @ 25°C		15.3 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		65°C
S.F. Amps		2.8-2.6/1.3	Temp. Rise @ S.F. Load		76°C		
			Locked-rotor Power Factor		58		
			Rotor inertia		0.0498 LB-FT2		

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	61	72	78	81	82	81
Efficiency	62.6	74.5	78.8	80.4	81	80.1	81
Speed	3571	3536	3509	3477	3444	3406	3444
Line amperes	0.66	0.76	0.91	1.09	1.29	1.52	1.29

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ABB Motors and Mechanical Inc.

WINDING # 35WGT097

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3518M

TORQUES (LB-FT): PO=7.6 PU=4.1 LR=5.6 LRA=11.7



