

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM3555T

2HP, 3450RPM, 3PH, 60HZ, 145TC, 3532M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 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	5.400 A @ 208.0 V 5.000 A @ 230.0 V 2.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	35VV818
Base	
Status	PRD/A
Elec. spec.	35WGR129
Layout	35LYVV818
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Inverter Ready
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	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.30 IN
Power Factor	85
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 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

NP1953A01											
CAT.NO.	CESSWDM3555T										
SPEC.	35VV818R129G1										
HP	2										
VOLTS	208-230/460										
AMP	5.4-5/2.5										
RPM	3450										
FRAME	145TC			HZ	60				PH	3	
SER.F.	1.15		CODE	N	DES	B		CLASS	F		
NEMA-NOM-EFF	86.5			PF	85						
RATING	40C AMB-CONT										
CC	010A										
DE	6205			ODE	6203						
ENCL	TEFC		SN								
	4:1CT 20:1VT										

AC Induction Motor Performance Data

Record # 86132

Typical performance - not guaranteed values

Winding: 35WGR129-R006			Type: 3532M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		2		Full Load Torque		2.99 LB-FT		
Volts		208-230/460		Start Configuration		direct on line		
Full Load Amps		5.4-5/2.5		Breakdown Torque		15.9 LB-FT		
R.P.M.		3450		Pull-up Torque		9.04 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		13.8 LB-FT		
NEMA Design Code		B	KVA Code	N		Starting Current	31 A	
Service Factor (S.F.)		1.15		No-load Current		1.13 A		
NEMA Nom. Eff.		86.5	Power Factor	85	Line-line Res. @ 25°C		5.59 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		51°C
S.F. Amps						Temp. Rise @ S.F. Load		59°C
						Locked-rotor Power Factor		47.5
						Rotor inertia		0.0885 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	80	86	89	91	89
Efficiency	75.8	84.8	86.4	87	86.5	85.7	86.6
Speed	3574	3549	3525	3500	3471	3441	3471
Line amperes	1.27	1.62	2.03	2.5	3.04	3.6	3.04

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WINDING # 35WGR129

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

TORQUES (LB-FT): PO=15.9 PU=9.04 LR=13.8 LRA=31



