BALDOR • RELIANCE II

Customer information packet CESSWDM3554T

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 3524M, TEFC 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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.300 A @ 460.0 V
	4.600 A @ 230.0 V
	4.640 A @ 208.0 V
Design Code	В
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.3 a

Part detail

Revision	С
Туре	AC
Mech. spec.	35VV818
Base	
Status	PRD/A
Elec. spec.	35WGL955
Layout	35LYVV818
Eff. date	02-19-2024
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	03-11-2022

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	М
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.42 IN
Power Factor	72
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
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1951A01										
CAT.NO.	CESSW	/DM35								
SPEC.	35VV8									
НР	1.5	1.5								
VOLTS	230/46									
AMP	4.6/2.3	4.6/2.3								
RPM	1770	1770								
FRAME	145TC			HZ	60			РΗ		3
SER.F.	1.15	С	ODE	М	DES	В	CLASS		F	
NEMA-NOM-EFF	86.5		P	F	72					
RATING	40C AN	40C AMB-CONT								
СС	010A									
DE	6205			ODE	6203	3				
ENCL	TEFC	SN								
	10:1CT 20:1VT									
	SFA 5/2.5									

AC Induction Motor Performance Data

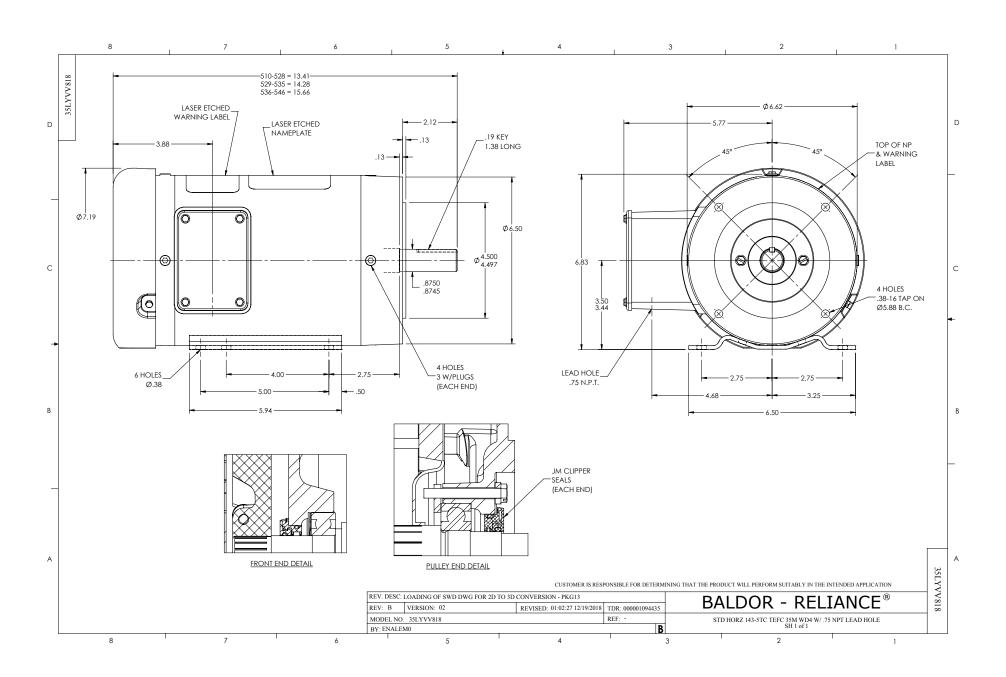
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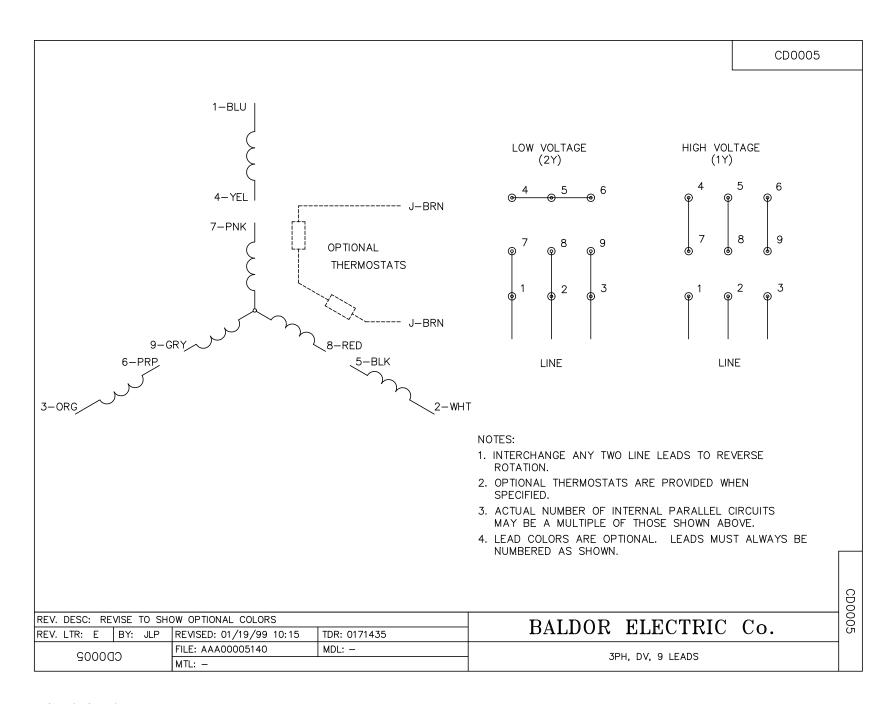
Typical performance - not guaranteed values

Winding: 35WGL955-R001 Type: 35		524M Enclosure: TEFC				
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque	4.48 LB-FT		
Volts		230/460	Start Configuration	direct on line		
Full Load Amps		4.6/2.3	Breakdown Torque	18.8 LB-FT		
R.P.M.		1770	Pull-up Torque	9.6 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	12.6 LB-FT		
NEMA Design Code	B KVA Code	М	Starting Current	19.7 A		
Service Factor (S.F.)		1.15	No-load Current	1.51 A		
NEMA Nom. Eff.	86.5 Power Factor	72	Line-line Res. @ 25°C	11.8 Ω		
Rating - Duty	40	C AMB-CONT	Temp. Rise @ Rated Load	48°C		
S.F. Amps		5/2.5	Temp. Rise @ S.F. Load	57°C		
			Locked-rotor Power Factor	58.4		
			Rotor inertia	0.173 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	49	63	72	78	81	76
Efficiency	75.1	83.5	86	86.5	85.8	84.8	86.1
Speed	1792	1785	1777	1769	1760	1750	1764
Line amperes	1.56	1.72	1.97	2.28	2.65	3.06	2.5





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