# BALDOR • RELIANCE II

# **Customer information packet** CEBM3558T

2HP, 1760RPM, 3PH, 60HZ, 145TC, 3528M, TEFC, F1 Class - None Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	145TC
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	2.000 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	CURUSEEV
	NEMA PREMIUM
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	2.800 A @ 460.0 V
	5.600 A @ 230.0 V
	5.800 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	2.8 a

#### Part detail

Revision	G
Туре	AC
Mech. spec.	35E567
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYE567
Eff. date	12-17-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	К
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	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.86 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1760 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

NP1259L									
CAT.NO.	CEBM3558T								
SPEC.	35E56	35E567G073G1							
НР	2								
VOLTS	230/460								
AMP	5.6/2.8								
RPM	1760								
FRAME	145TC		HZ		60			PH	3
SER.F.	1.15	COD	E	K	DES	В	CL	F	
NEMA-NOM-EFF	86.5	P	F	77					
RATING	40C AN	40C AMB-CONT							
СС	010A								
DE	6205		OI	DE	6203				
ENCL	TEFC	SN							
	SFA 6.26/3.13								

#### **AC Induction Motor Performance Data**

Record # 87157

Typical performance - not guaranteed values

<b>Winding:</b> 35WGG073-R001 <b>Type:</b> 35		8528M Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		2	Full Load Torque	5.99 LB-FT	
Volts		230/460	Start Configuration	direct on line	
Full Load Amps		5.6/2.8	Breakdown Torque	20.5 LB-FT	
R.P.M.		1760	Pull-up Torque	13.8 LB-FT	
Hz	60 <b>Phase</b>	3	Locked-rotor Torque	15 LB-FT	
NEMA Design Code	B <b>KVA Code</b>	K	Starting Current	22.5 A	
Service Factor (S.F.)		1.15	No-load Current	1.62 A	
NEMA Nom. Eff.	86.5 Power Factor	77	Line-line Res. @ 25°C	9.54 Ω	
Rating - Duty	40	OC AMB-CONT	Temp. Rise @ Rated Load	64°C	
S.F. Amps		6.3/3.15	Temp. Rise @ S.F. Load	77°C	
			Locked-rotor Power Factor	57.9	
			Rotor inertia	0.202 lb-ft²	

#### Load Characteristics 460 V, 60 Hz, 2 HP

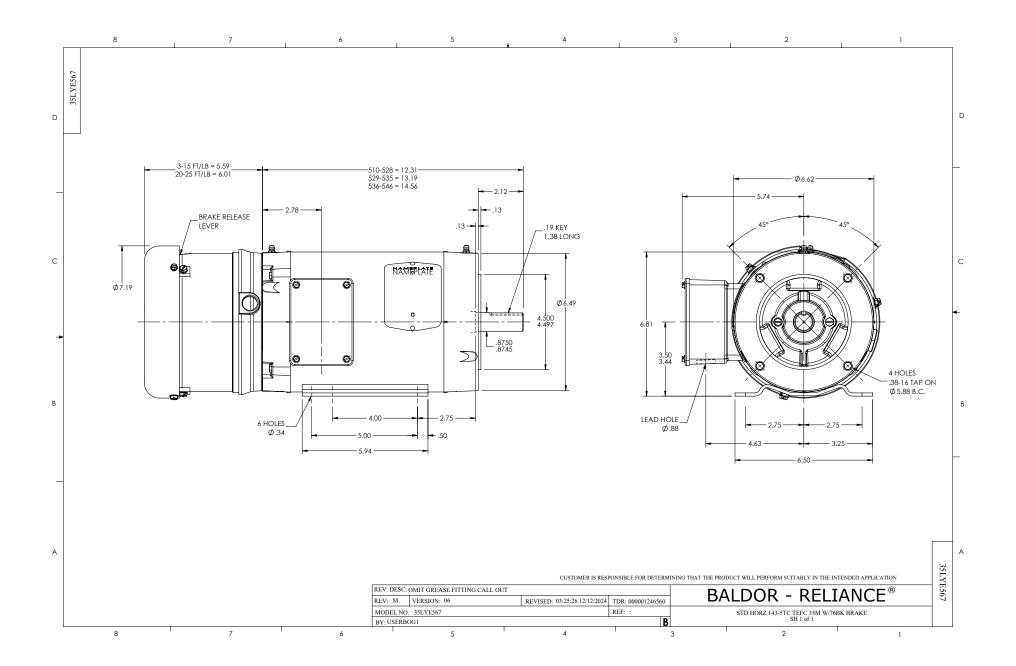
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	76	81	84	80
Efficiency	78.3	85.3	86.9	86.5	85.3	83.6	86.1
Speed	1791	1782	1771	1760	1748	1734	1754
Line amperes	1.71	1.97	2.34	2.82	3.36	3.97	3.13

PERCENT OF RATED OUTPUT (2 HP)

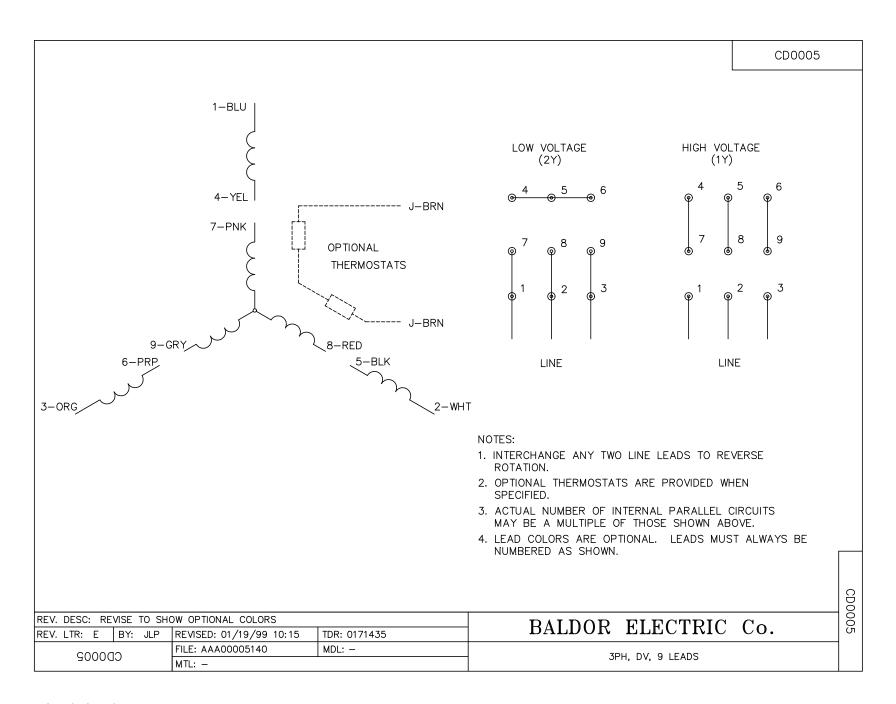
0.0 L

4/25/2025 ACPERF, record # 87157

1,700 L



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