



Customer information packet

CEM3558T-G

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	CSA EEV UR NEMA_PREMIUM 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	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYE2179
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-21-2022

High Voltage Full Load Amps	2.8 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	77
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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

NP3441LUA

CAT.NO.	CEM3558T-G						
SPEC	35-0000-1334						
HP	2						
VOLTS	230/460						
AMPS	5.6/2.8						
RPM	1760						
FRAME	145TC		HZ	60		PH	3
SF	1.15	CODE	K	DES	B	CLASS	H
NEMA NOM. EFF	86.5	PF	77				
RATING	40C AMB-CONT						
CC	010A						
ENCL	TEFC	SER					
DE	6205	ODE	6203				
VPWM INVERTER READY	SFA 6.26/3.13						
CT6-60H(10:1)VT3-60H(20:1	50HZ 2HP 190/380V 6.3/3.15A						SF1.0

AC Induction Motor Performance Data

Record # 87418

Typical performance - not guaranteed values

Winding: 35WGG073-R005		Type: 3528M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2		Full Load Torque	5.961 LB-FT
Volts	230/460		Start Configuration	direct on line
Full Load Amps	5.6/2.8		Breakdown Torque	21.8 LB-FT
R.P.M.	1760		Pull-up Torque	12.9 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	15.6 LB-FT
NEMA Design Code	B KVA Code	L	Starting Current	22.5 A
Service Factor (S.F.)	1.15		No-load Current	1.4 A
NEMA Nom. Eff.	86.5 Power Factor	74	Line-line Res. @ 25°C	9.6412 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	54°C
S.F. Amps			Temp. Rise @ S.F. Load	67°C
			Locked-rotor Power Factor	56.5
			Rotor inertia	0.202 lb-ft ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	74	81	84	86	83
Efficiency	80.2	86.5	87.6	87.1	85.7	83.9	86.3
Speed	1790.8	1782.5	1773.4	1763.7	1753.6	1741.2	1758
Line amperes	1.5	1.78	2.18	2.67	3.26	3.86	3.02

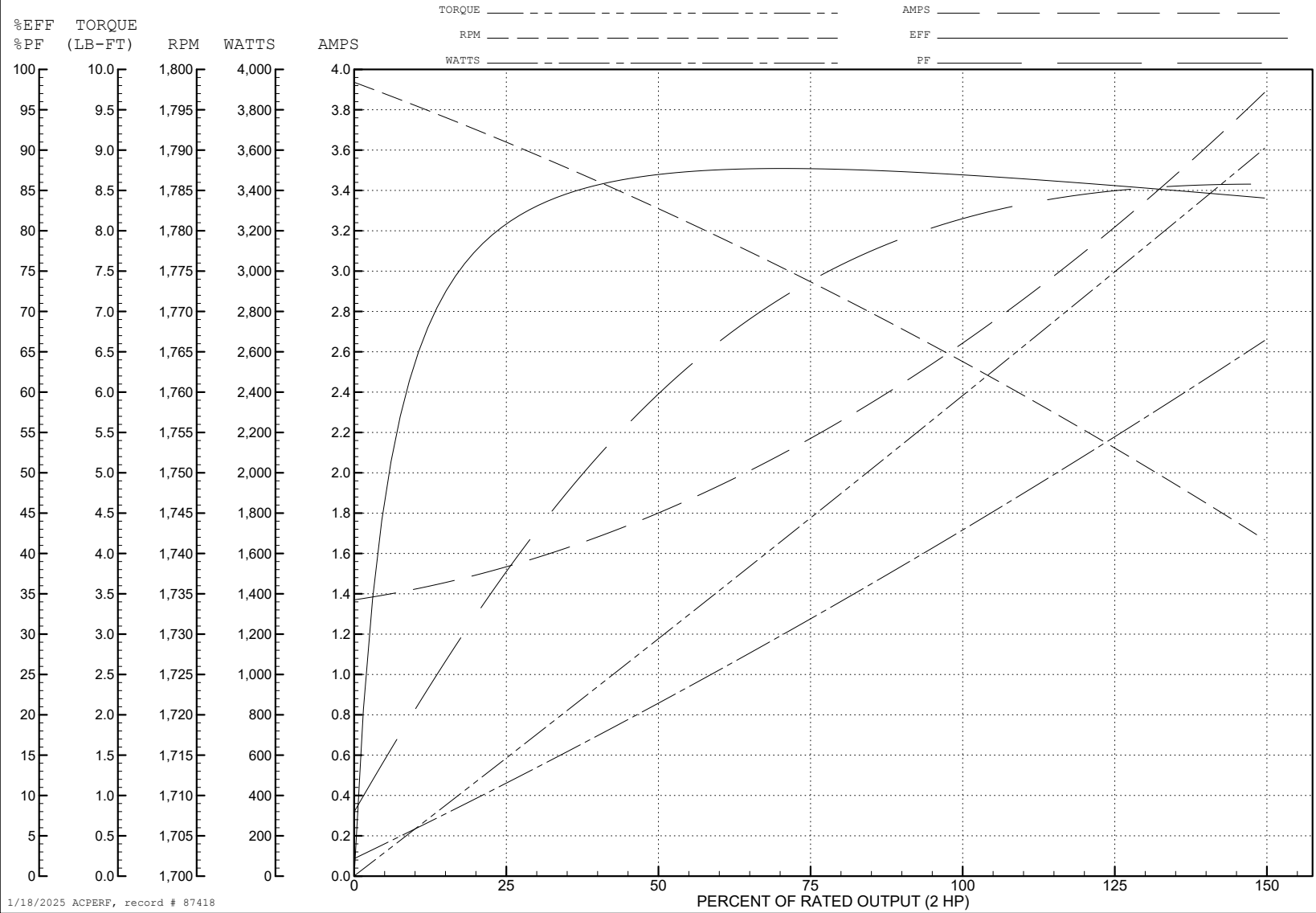
ABB Motors and Mechanical Inc.

WINDING # 35WGG073

Typical performance - not guaranteed values.

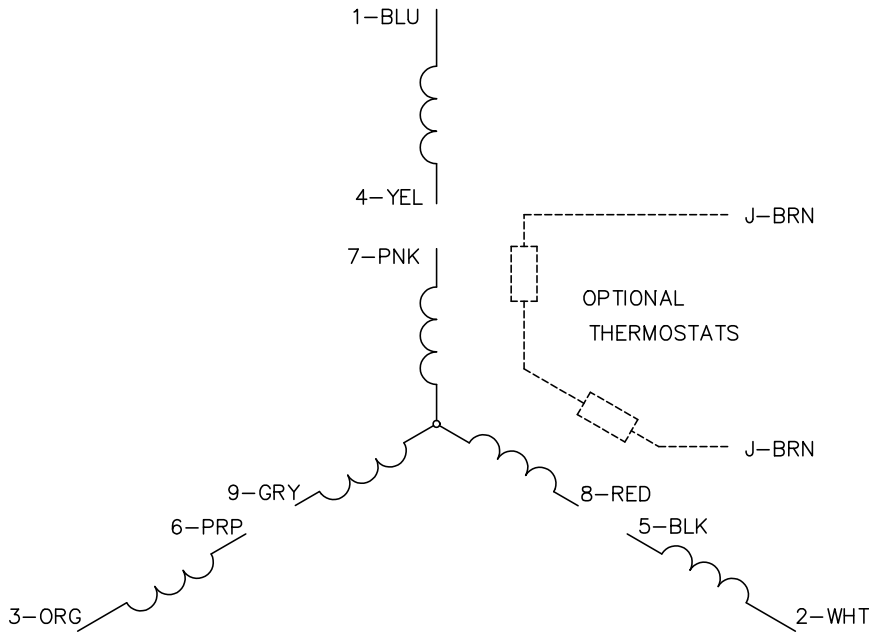
2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

TORQUES (LB-FT): PO=21.8 PU=12.9 LR=15.6 LRA=22.5

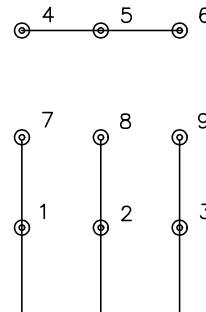


1/18/2025 ACPERF, record # 87418

CD0005

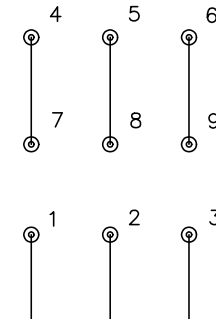


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP REVISED: 01/19/99 10:15 TDR: 0171435

500000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS