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# Customer information packet

## XM28342T

30HP, 1760//1475RPM, 3PH, 60//50HZ, 286T, XPF

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

Enclosure	XPFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ 25.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
XP Class and Group	CLI GP D; CLII GP F,G
XP Division	Division I
Agency Approvals	UL CSA EEV
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
Constant Torque Speed Range	12
Current @ Voltage	38.000 A @ 380.0 V 38.000 A @ 460.0 V 76.000 A @ 190.0 V 76.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

## Part detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY538
Layout	10LYE106
Eff. date	07-17-2023
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-24-2020

Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.61 IN
Power Factor	80
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

XP Temp Code

T3C

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**Nameplate**

NP0887XPSLEV										
<b>NO.</b>		<b>CC</b>	010A							
<b>S/N</b>		<b>TEMP CODE</b>	T3C							
<b>SPEC.</b>	10-0000-1576		<b>INV.TYPE</b>	PWM						
<b>CAT.NO.</b>	XM28342T		<b>C HP FR</b>	60	<b>C HP TO</b>	90				
<b>HP</b>	30//25		<b>CT HZ FROM</b>	12	<b>CT HZ TO</b>	60				
<b>VOLTS</b>	230/460//190/380		<b>VT HZ FROM</b>	6	<b>VT HZ TO</b>	60				
<b>AMPS</b>	76/38//76/38		<b>MAG CUR</b>	39.6/19.8						
<b>RPM</b>	1760//1475		<b>MX RPM</b>	2700						
<b>HZ</b>	60//50	<b>PH</b>	3	<b>CL</b>	F	<b>NOM.EFF.</b>	93.6			
<b>SER.F.</b>	1.00	<b>DES</b>	A	<b>SL HZ</b>	1.3	<b>WK2</b>	4.46			
<b>FRAME</b>	286T	<b>RATING</b>	40C AMB-CONT							
	1.15SF ON SINEWAVE									
	NEMA MG-1,PT.5,IP54									

## Parts list

Part number	Description	Quantity
SA385337	SA 10-0000-1576	1.000 ea
RA375578	RA 10-0000-1576	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP0887XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
LB1073	ALUM XP CAUTION LABEL	1.000 ea
10FH1008A01	310 FAN HOUSING X-PROOF MACH.	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
09FN3001C02	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 ea
10EP1701A01	FR ENDPLATE, MACH	1.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
10EP1709A08	PU ENDPLATE, X-PROOF W/LABYRINTH SHAFT G	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA3050A03	3/8-16 X 2.25" GRADE 8 BOLT	4.000 ea
10XN2520K40	1/4-20 X 2-1/2 HEX HD CAPSCREW, GRADE 5, Z	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
12CB1001A01	K.O.BOX, MACH X-PROOF, 1.50 NPT HOLE	1.000 ea

10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
12CB1501A01	COND.BOX LID, MACH., X-PROOF, 310,312	1.000 ea
10XN3816K20	3/8-16 X 1.25 HEX HD CAP GRADE 5	6.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	6.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.125 ga
12PA1000	PACKAGING GROUP PRINT PK1024A07	1.000 ea
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 ea

**AC Induction Motor Performance Data**

Record # 83882

Typical performance - not guaranteed values

<b>Winding: 10WGY538-R047</b>		<b>Type: 1056M</b>		<b>Enclosure: XPFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	30//25		<b>Full Load Torque</b>	88.7 LB-FT	
<b>Volts</b>	230/460//190/380		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	76/38		<b>Breakdown Torque</b>	330 LB-FT	
<b>R.P.M.</b>	1760//1475		<b>Pull-up Torque</b>	142 LB-FT	
<b>Hz</b>	60	<b>Phase</b>	3	<b>Locked-rotor Torque</b>	178 LB-FT
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	J	<b>Starting Current</b>	270 A
<b>Service Factor (S.F.)</b>	1		<b>No-load Current</b>	17.9 A	
<b>NEMA Nom. Eff.</b>	93.6	<b>Power Factor</b>	80	<b>Line-line Res. @ 25°C</b>	0.19377 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	64°C	
			<b>Locked-rotor Power Factor</b>	30.9	
			<b>Rotor inertia</b>	4.47 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 30 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	41	63	73	80	82	85
<b>Efficiency</b>	87.6	92.3	93.5	93.7	93.4	92.9
<b>Speed</b>	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1
<b>Line amperes</b>	19.8	24.3	30.7	37.6	45.6	55.2



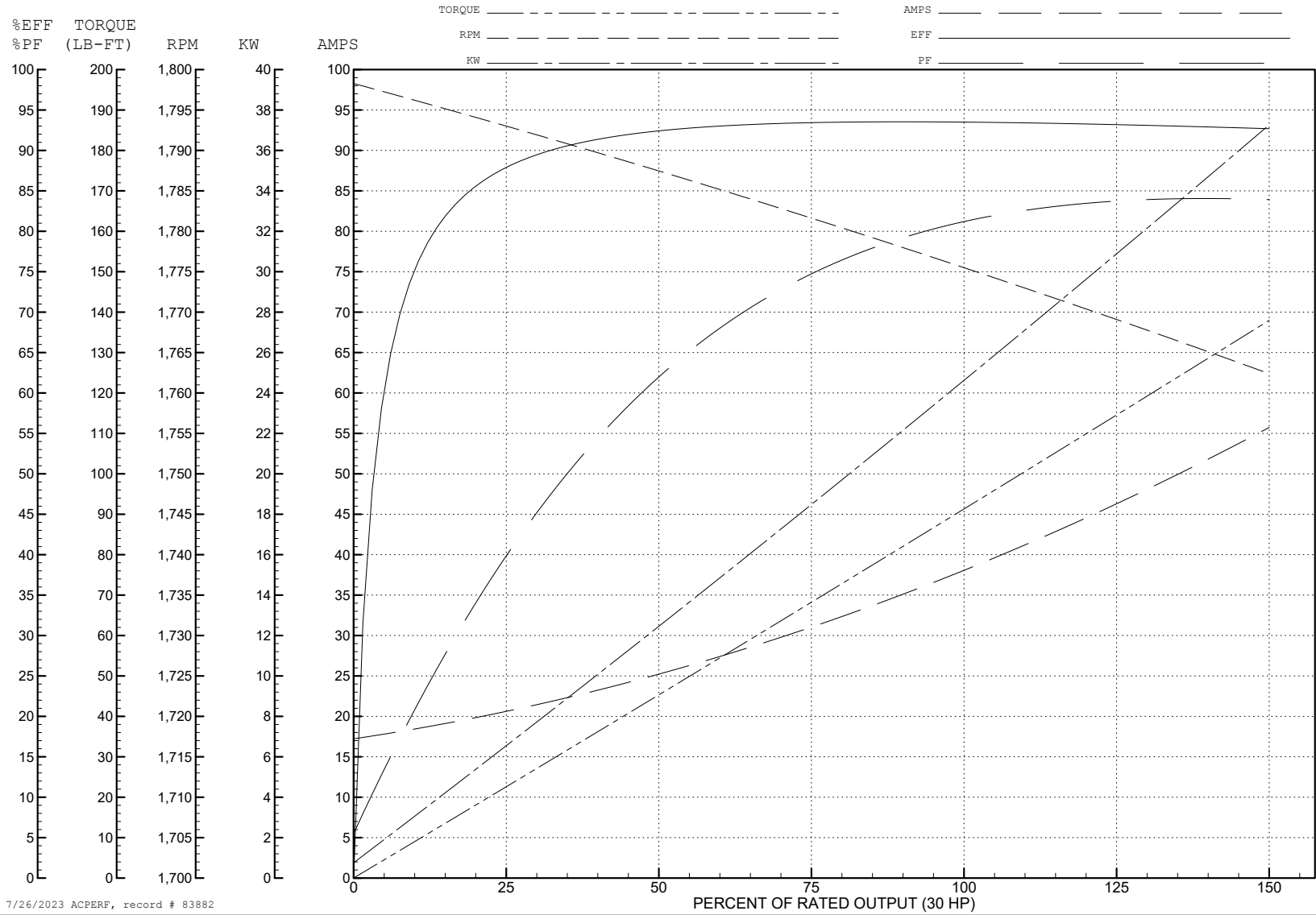
ABB Motors and Mechanical Inc.

WINDING # 10WGY538

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1776.5 RPM 460 V 1056M

TORQUES (LB-FT): PO=330 PU=142 LR=178 LRA=270



7/26/2023 ACPERF, record # 83882

**AC Induction Motor Performance Data**

Record # 99504

Typical performance - not guaranteed values

Winding: 10WGY538-R047		Type: 1056M	Enclosure: XPFC			
<b>Nameplate Data</b>			<b>380 V, 50 Hz: Single Voltage Motor</b>			
Rated Output (HP)	30//25		Full Load Torque	88.91 LB-FT		
Volts	230/460//190/380		Start Configuration	direct on line		
Full Load Amps	76/38//76/38		Breakdown Torque	320 LB-FT		
R.P.M.	1760//1475		Pull-up Torque	146 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	183 LB-FT	
NEMA Design Code	A		KVA Code	J	Starting Current	257 A
Service Factor (S.F.)	1				No-load Current	17.32 A
NEMA Nom. Eff.	93.6	Power Factor	80		Line-line Res. @ 25°C	0.202 Ω
Rating - Duty	40C AMB-CONT				Temp. Rise @ Rated Load	63°C
					Locked-rotor Power Factor	34
					Rotor inertia	4.47 lb-ft <sup>2</sup>

**Load Characteristics 380 V, 50 Hz, 25 HP**

% of Rated Load	25	50	75	100	125	150
Power Factor	42	64	75	81	83	85
Efficiency	88.3	92.2	93.2	93.3	92.5	92.1
Speed	1493	1488	1483	1477	1470	1462
Line amperes	19.24	23.86	30.44	37.54	45.78	55.71

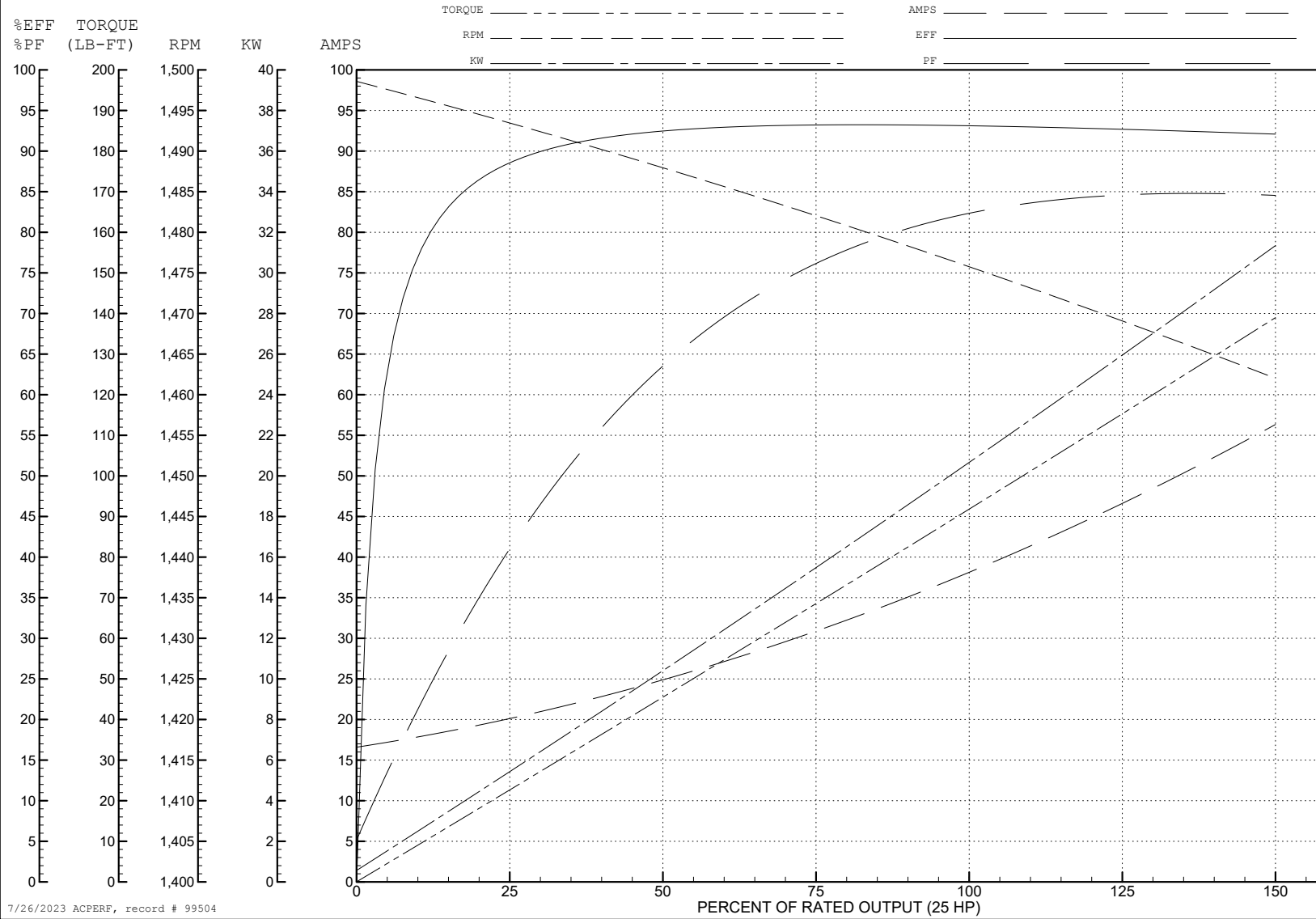
ABB Motors and Mechanical Inc.

WINDING # 10WGY538

Typical performance - not guaranteed values.

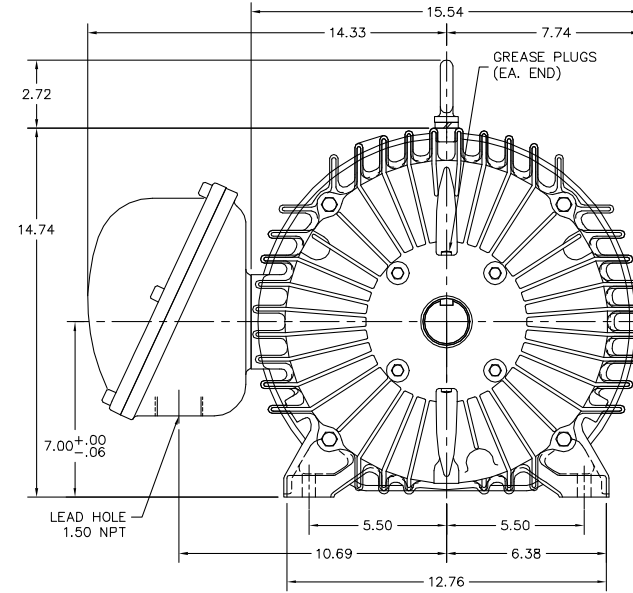
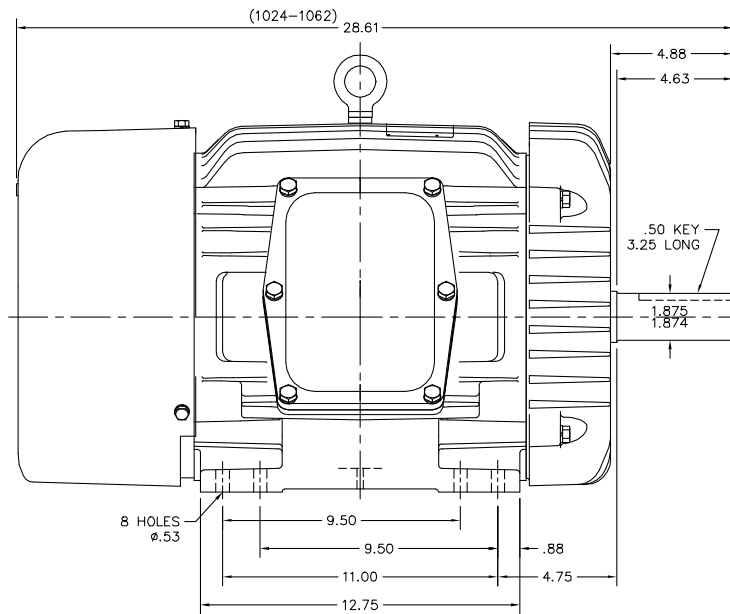
25 HP 3 PH 50 HZ 1477 RPM 380 V 1056M

TORQUES (LB-FT): PO=320 PU=146 LR=183 LRA=257



7/26/2023 ACPERF, record # 99504

10LVE106



10LVE106

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

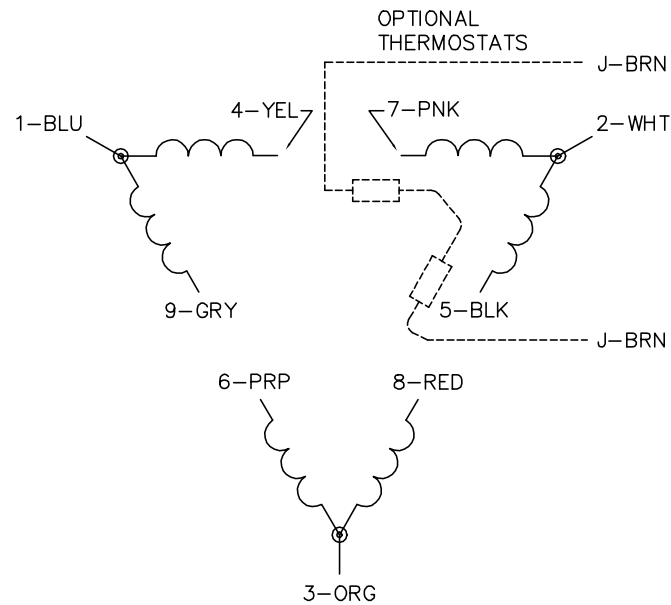
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**BALDOR - RELIANCE**®

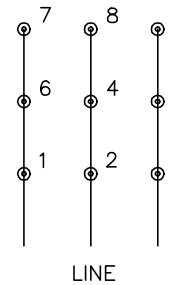
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SH 1 of 1

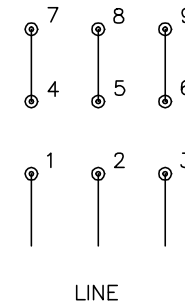
CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



**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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1