ABB BALDOR RELIANCE

Customer information packet

IDVSM2333T

15HP, 1765RPM, 3PH, 60HZ, 254TC, 0944M, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 2:04:09 PM

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 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
	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	18.100 A @ 460.0 V
	36.200 A @ 230.0 V
	38.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a

Part Detail

Revision	G
Type	AC
Mech. spec.	09K146
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYK146
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.84 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

Nameplate

NP3302L					
CAT NO	IDVSM2333T				
SPEC.	09K146T597G1				
FRAME	254TC	**HP**	15 TE		
VOLTS	230/460				
MAG CUR	14.6/7.3	**FLA**	36.2/18.1		
RPM	1765	**RPM MAX**	2700		
HZ	60	**PH**	3	**CLASS**	F
SER.F.	1.00	**SL HZ**	1.2		
NEMA-NOM-EFF	92.4	**WK2**	1.93		
RATING	40C AMB-CONT				
DE BRG	6309	**ODE BRG**	6208		
CC	010A	**SN**			
	1.5:1 CHP PWM				
	1000:1 CT, 1000:1 VT				

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.130
HP	15HP	NL AMPS	7.6	R2	0.238	X2	1.330
BASE SPEED	1765	Slips	1.17			XM	33.900
PHASE/HZ	3/60	WK^2 (lb-ft^2)	1.92				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1765	15.0	44.5	460	60	18.1
Max Speed	2646	15.0	29.7	460	90	17.2
Min Speed	0	0.0	44.5	23.08	1.17	18.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	7.6
1/4	1791	3.7	10.8	460	60	8.6
1/2	1783	7.5	22.1	460	60	11.0
3/4	1774	11.3	33.3	460	60	14.5
Full Load	1765	15.0	44.5	460	60	18.1
O/L	1730	29.9	90.8	460	60	36.1

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR
A MEMBER OF THE ABB GROUP

DR BY BR
CK BY
APP BY BR
DATE 10/31/2024

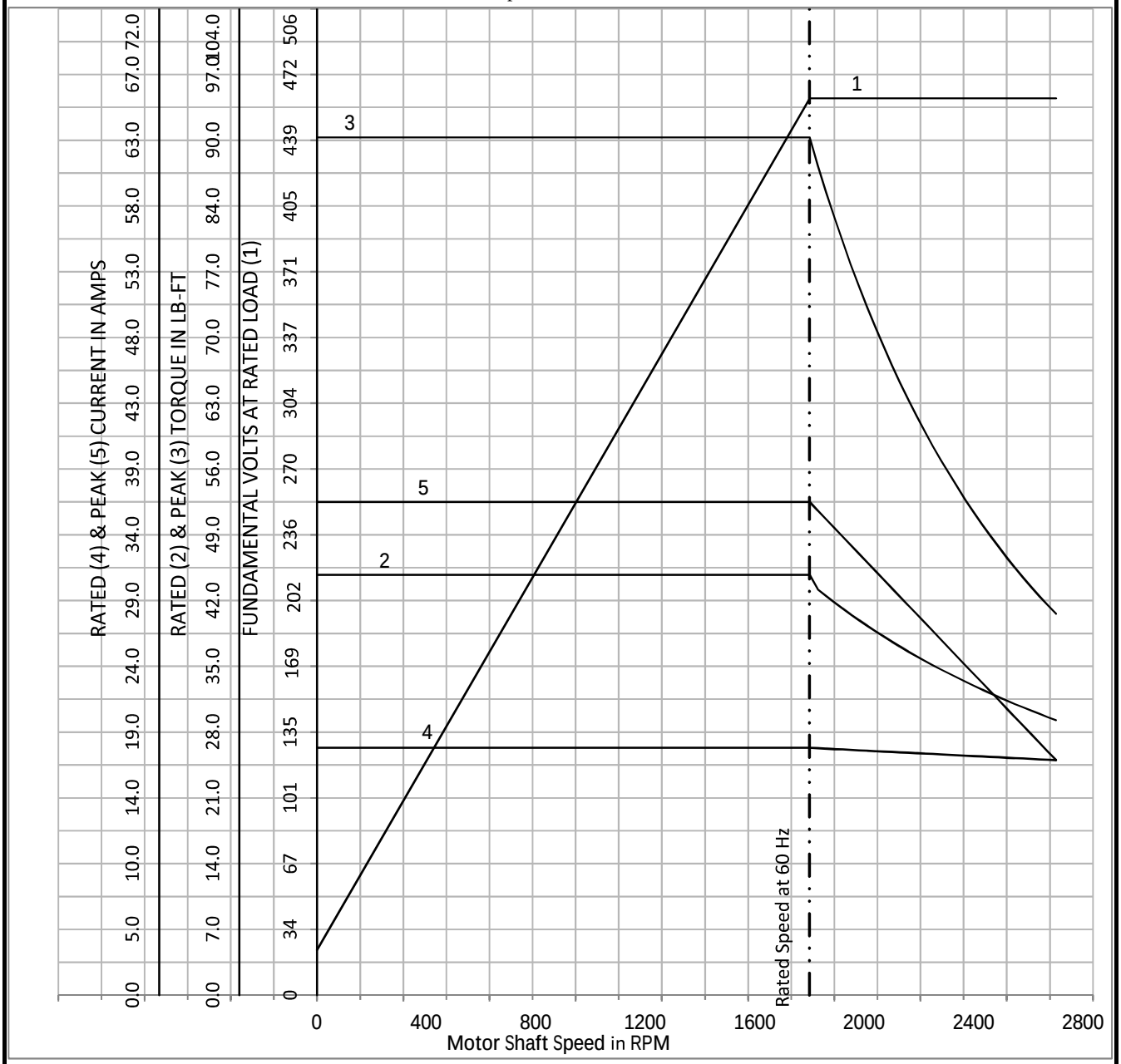
A-C MOTOR PERFORMANCE CURVES

09WGT597

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.13
HP	15HP	NL AMPS	7.56	R2	0.238	X2	1.33
BASE SPEED	1765	Slips	1.166666667			XM	33.9000
PHASE/HZ	3/60	WK2 (lb-ft2)	1.92				

Vector PWM Inverer Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR
A MEMBER OF THE ABB GROUP

DR BY	BR
CK BY	
APP BY	BR
DATE	10/31/2024

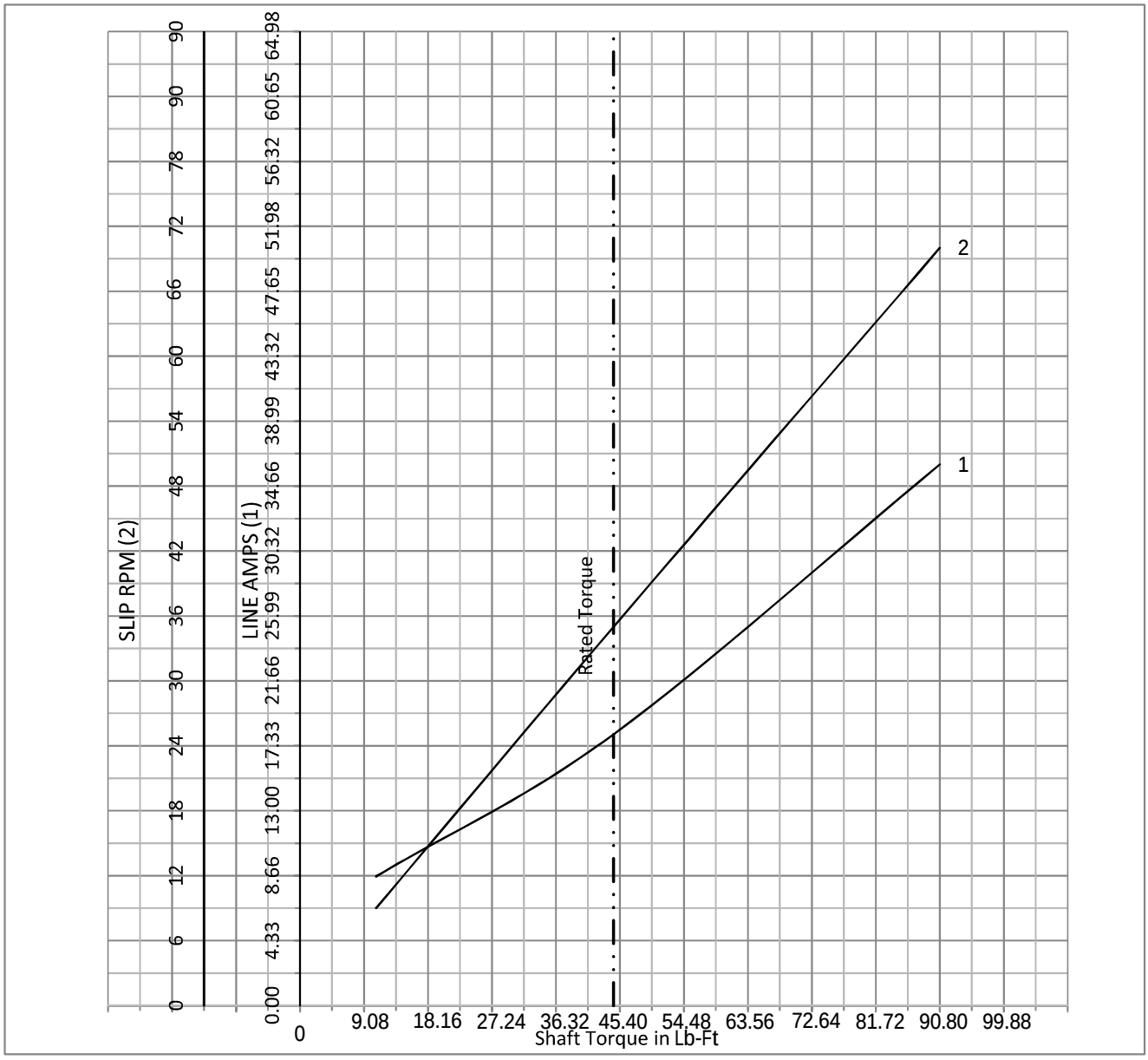
A-C MOTOR PERFORMANCE CURVES

09WGT597

NP VOLTS	230/460	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	36.2/18.1	Base Volt	460	R1	0.296	X1	1.13
HP	15HP	NL AMPS	7.56	R2	0.238	X2	1.33
BASE SPEED	1765	Slips	1.166666667			XM	33.9
PHASE/HZ	3/60	WK2 (lb-ft2)	1.92				

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

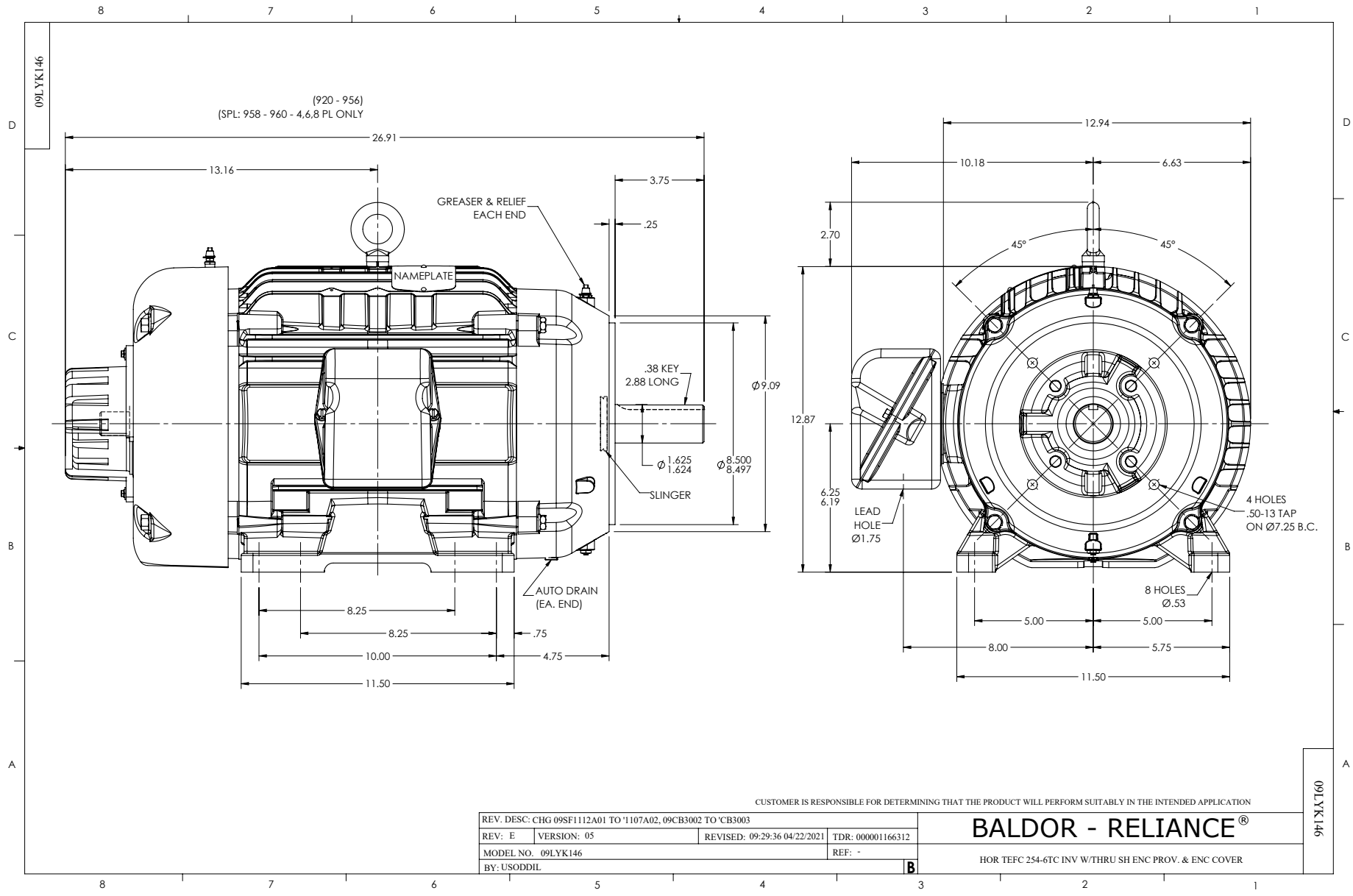
Data Valid For Nameplate Speed Range only

BALDOR
A MEMBER OF THE ABB GROUP

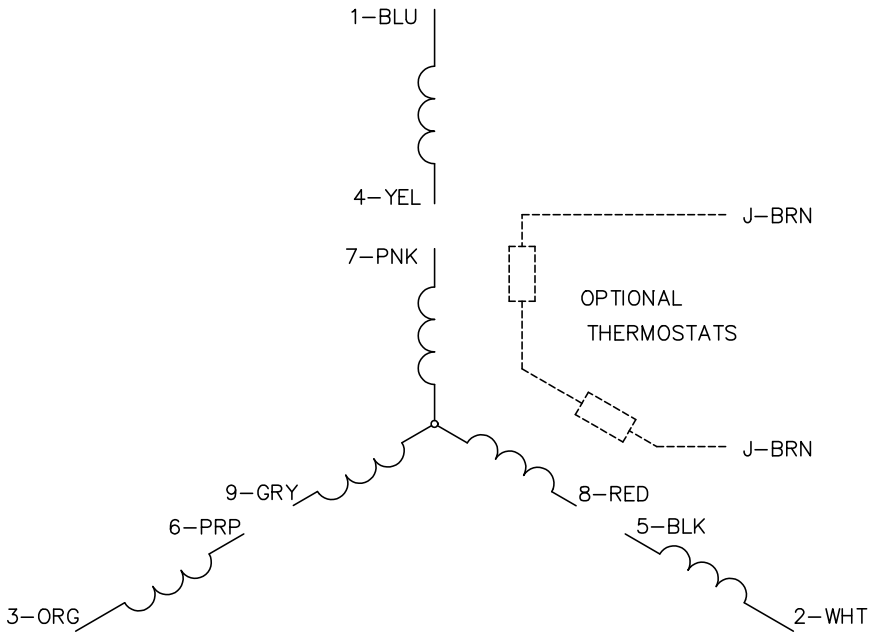
DR BY BR
CK BY
APP BY BR
DATE 10/31/2024

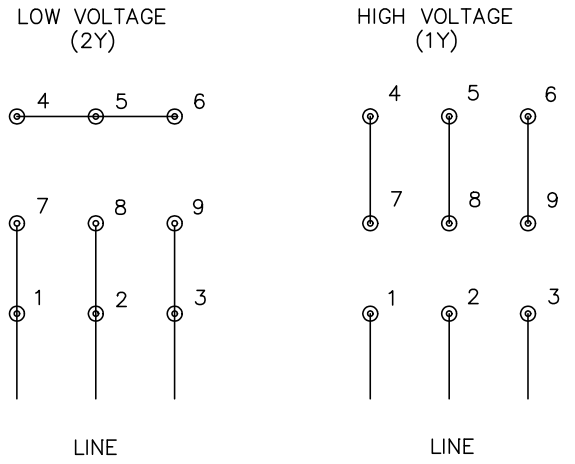
A-C MOTOR PERFORMANCE CURVES

09WGT597


09LYK146
(920 - 956)
(SPL: 958 - 960 - 4,6,8 PL ONLY
26.91
13.16
3.75
.25
GREASER & RELIEF
EACH END
NAMEPLATE
.38 KEY
2.88 LONG
Ø9.09
Ø1.625
Ø1.624
Ø8.500
Ø8.497
SLINGER
AUTO DRAIN
(EA. END)
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.18
6.63
2.70
45°
45°
12.87
6.25
6.19
LEAD
HOLE
Ø1.75
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
8 HOLES
Ø.53
5.00
5.00
8.00
5.75
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG 09SF1112A01 TO '1107A02, 09CB3002 TO 'CB3003
REV: E
VERSION: 05
REVISED: 09:29:36 04/22/2021
TDR: 000001166312
MODEL NO. 09LYK146
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
HOR TEFC 254-6TC INV W/THRU SH ENC PROV. & ENC COVER
09LYK146

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS