ABB BALDOR RELIANCE

Customer information packet

EM2515T-CI

20HP, 1765RPM, 3PH, 60HZ, 256T, 0946M, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	48.000 A @ 230.0 V
	49.000 A @ 208.0 V
	24.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Y
Type	AC
Mech. spec.	09D01
Base	
Status	PRD/A
Elec. spec.	09WGY363
Layout	09LYD001
Eff. date	12-20-2024
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	03-08-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0946M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.37 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP3554LUA												
CAT.NO.	EM2515T-CI			**P/N**						**ENCL**	OPEN	
SPEC.	09D001Y363G2	**CC**	010A	**FRAME**	256T			**SER.NO.**				
HP	20		**CLASS**	F	**HZ**	60						
RPM	1765		**PH**	3	**DES**	A						
VOLTS	230/460			**CODE**	H		**ODE BRG**	6208	**DE BRG**	6309		
AMPS	48/24											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	93			**GREASE**	POLYREX EM			
PF	84	**SER.F.**	1.15				**CT30-60(2:1) VT3-60(20:1)**					
USABLE AT	50HZ 20HP 190/380V 54/27A			SF 1.0								
HTR-VOLTS	**HTR-AMPS**			**MAX. SPACE HEATER TEMP.**								

AC Induction Motor Performance Data
Record # 32255
Typical performance - not guaranteed values

Winding: 09WGY363-R003	**Type:** 0946M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	60 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			48/24	**Breakdown Torque**	190 LB-FT
R.P.M.			1765	**Pull-up Torque**	100 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	110 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	164 A
Service Factor (S.F.)			1.15	**No-load Current**	8.5 A
NEMA Nom. Eff.	93	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.433 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	33.6
				Rotor inertia	2.01 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	74	83	87	89	89	88
Efficiency	87.4	91.9	92.8	93	92.2	91.4	92.4
Speed	1792	1784	1775	1767	1757	1748	1761
Line amperes	10.2	13.7	18.2	23.1	28.5	34.2	26.2

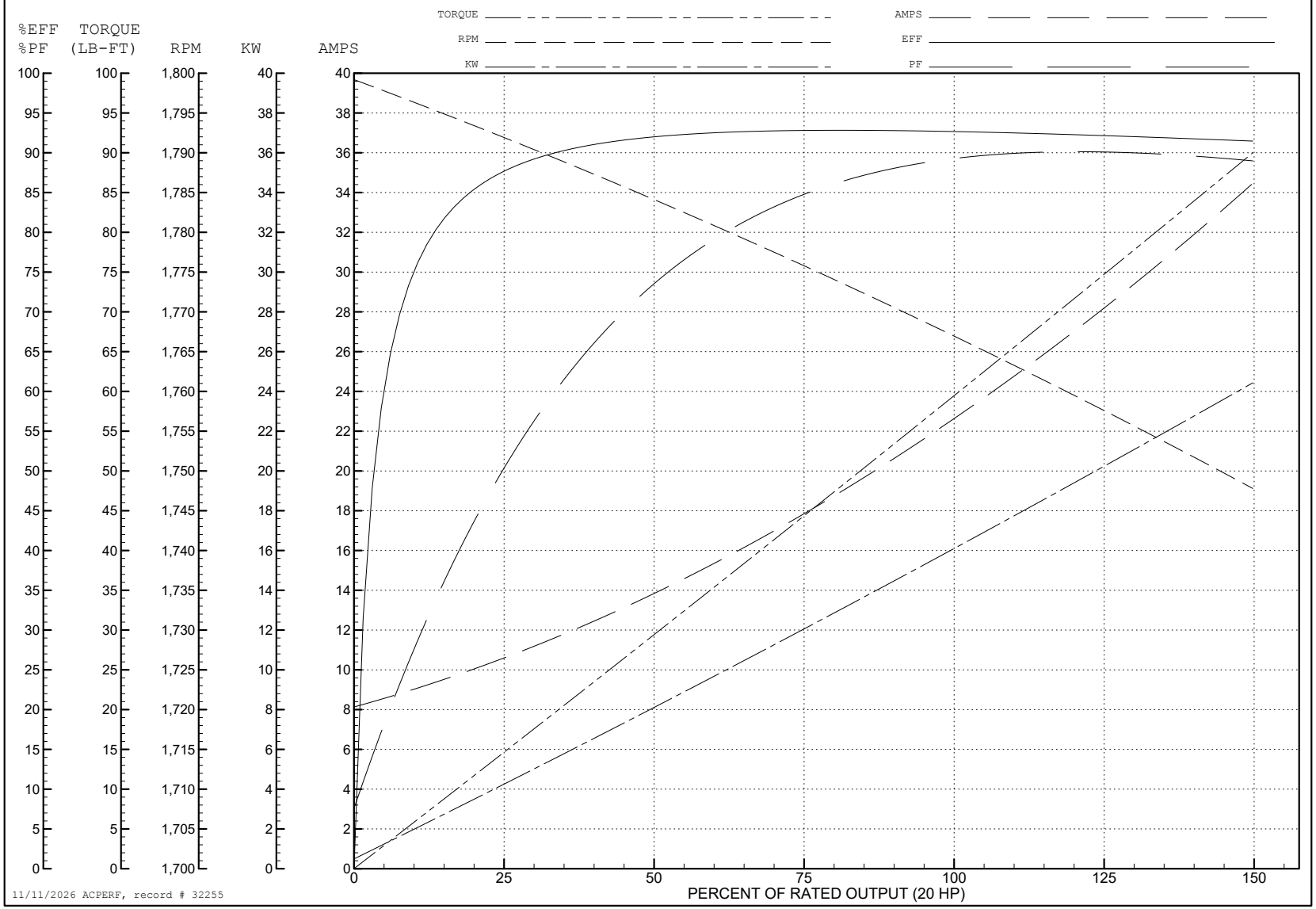
ABB Motors and Mechanical Inc.

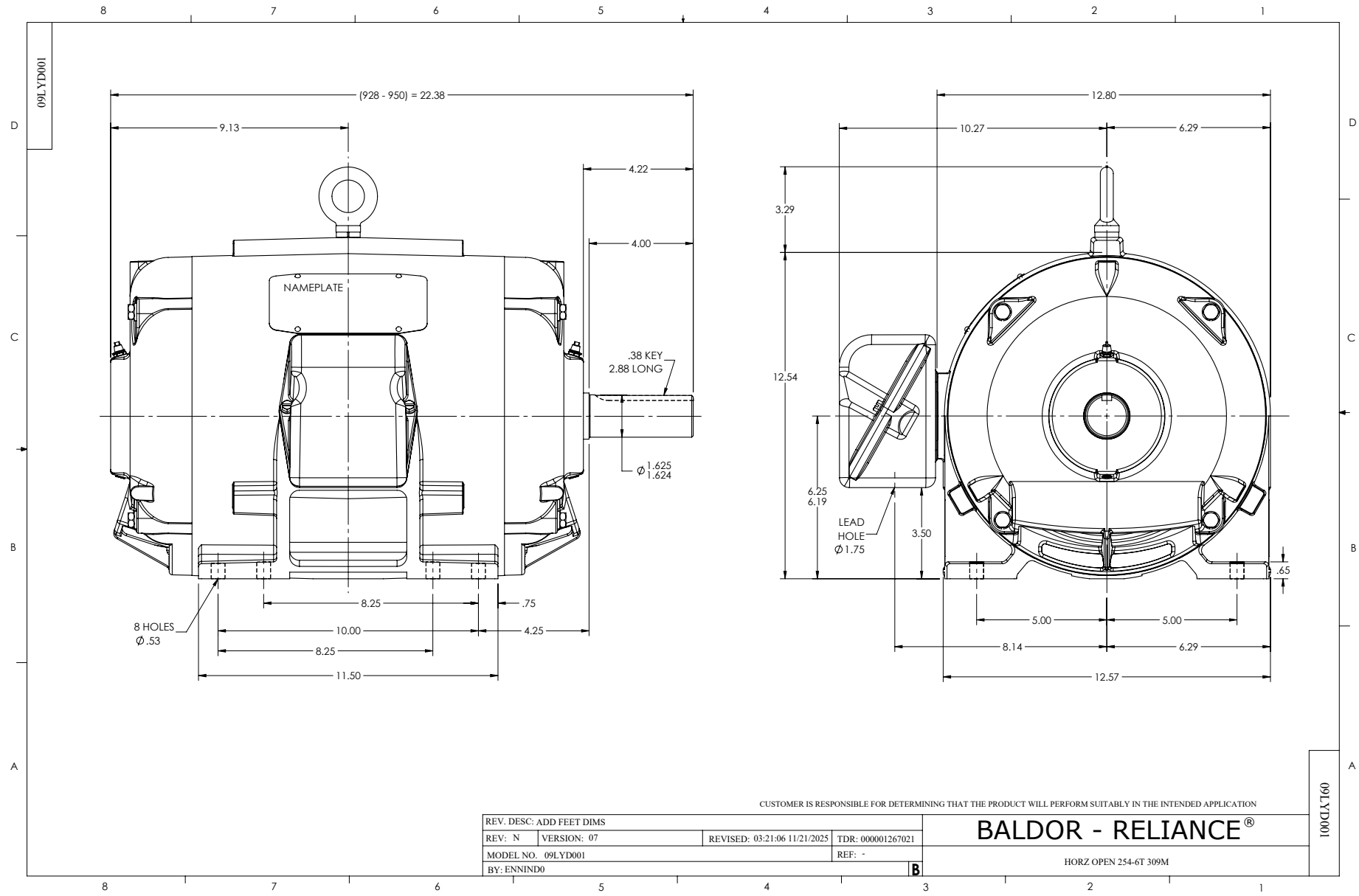
WINDING # 09WGY363

20 HP 3 PH 60 HZ 1765 RPM 460 V 0946M

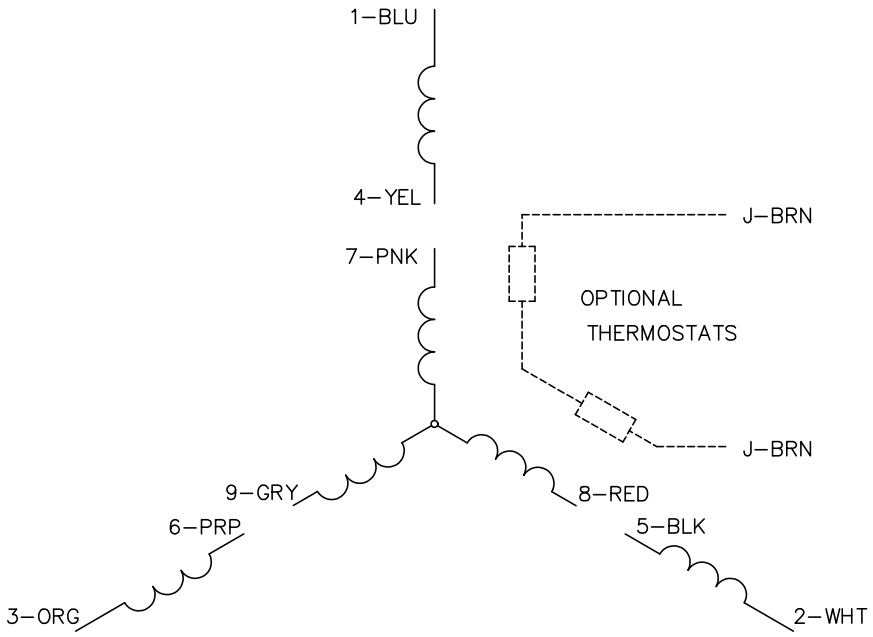
Typical performance - not guaranteed values.

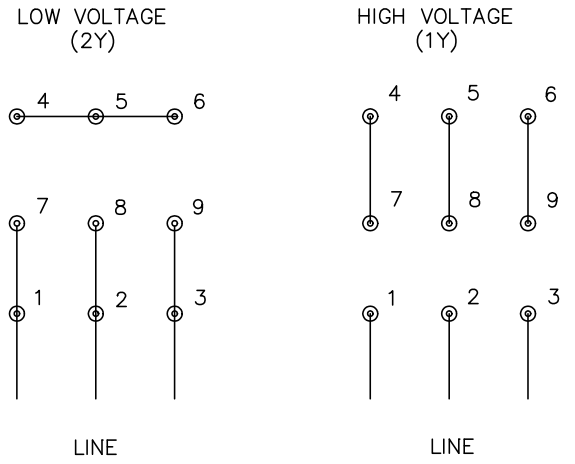
TORQUES(LB-FT): PO=190 PU=100 LR=110 LRA=164




09LYD001
(928 - 950) = 22.38
9.13
4.22
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø1.625
1.624
8 HOLES
Ø.53
8.25
.75
10.00
4.25
8.25
11.50
12.80
10.27
6.29
3.29
12.54
6.25
6.19
LEAD
HOLE
Ø1.75
3.50
.65
5.00
5.00
8.14
6.29
12.57
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD FEET DIMS
REV: N
VERSION: 07
REVISED: 03:21:06 11/21/2025
TDR: 000001267021
MODEL NO. 09LYD001
REF: -
BY: ENNIND0
B
BALDOR - RELIANCE®
HORZ OPEN 254-6T 309M
09LYD001

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