BALDOR • RELIANCE

Product Information Packet

EM2515T-CI

20HP,1765RPM,3PH,60HZ,256T,0946M,OPEN,F1

Part Detail

Revision:	V	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	09WGY363	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	09D01	**Layout:**	09LYD001	**Poles:**	04	**Created Date:**	03-08-2010
Base:	RG	**Eff. Date:**	04-05-2022	**Leads:**	9#12		

Specs

Catalog Number:	EM2515T-CI	**Heater Indicator:**	No Heater
Enclosure:	OPEN	**Insulation Class:**	F
Frame:	256T	**Inverter Code:**	Inverter Ready
Frame Material:	Iron	**KVA Code:**	H
Output @ Frequency:	20.000 HP @ 60 HZ	**Lifting Lugs:**	Standard Lifting Lugs
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	**Locked Bearing Indicator:**	No Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 12 AWG
	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
XP Class and Group:	None	**Motor Lead Termination:**	Flying Leads
XP Division:	Not Applicable	**Motor Type:**	0946M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	84
	CSA	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	Standard
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	24.000 A @ 460.0 V
	48.000 A @ 230.0 V
	49.000 A @ 208.0 V
Design Code:	A
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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
AMPS	48/24			**USABLE AT 208V**	49			**DE BRG**	6309
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	93			**GREASE**	POLYREX EM
PF	84	**SER.F.**	1.15						
USABLE AT	50HZ 20HP 190/380V 54/27A			SF 1.0				**CT30-60(2:1) VT3-60(20:1)**	
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

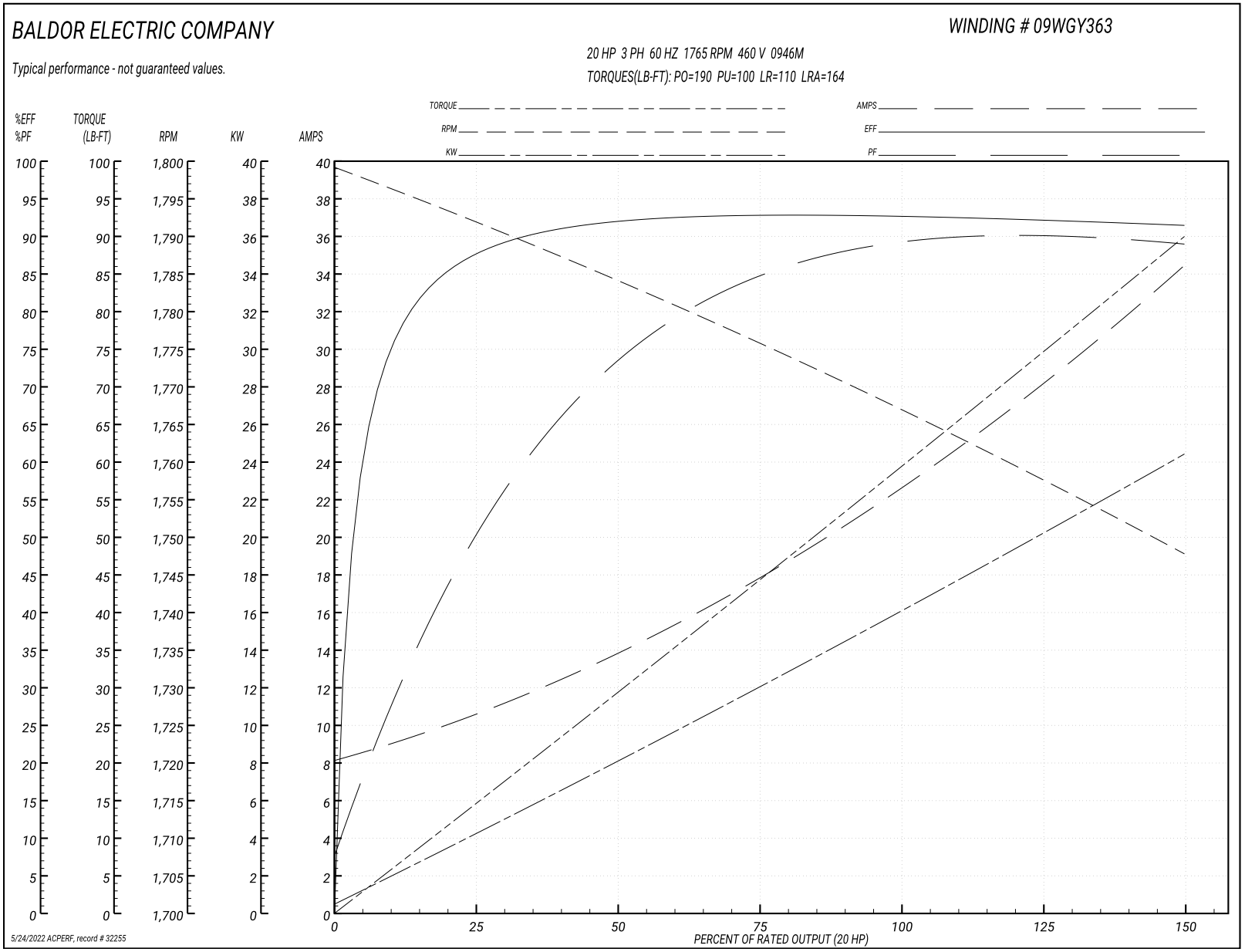
Nameplate Data		
Rated Output (HP)		20
Volts		230/460
Full Load Amps		48/24
R.P.M.		1765
Hz	60 **Phase**	3
NEMA Design Code	A **KVA Code**	H
Service Factor (S.F.)		1.15
NEMA Nom. Eff.	93 **Power Factor**	84
Rating - Duty		40C AMB-CONT
S.F. Amps		

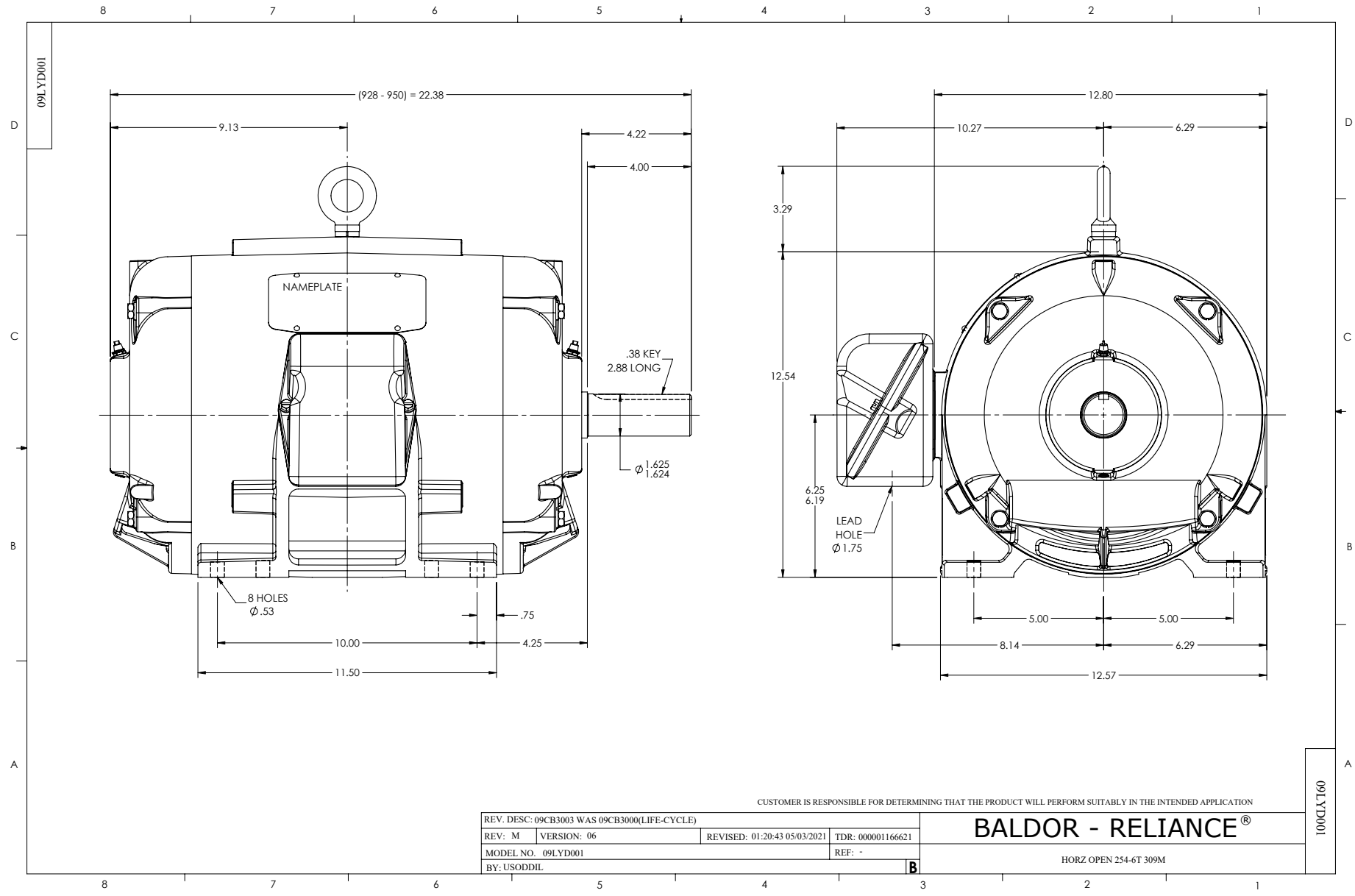
460 V, 60 Hz: High Voltage Connection	
Full Load Torque	60 LB-FT
Start Configuration	direct on line
Breakdown Torque	190 LB-FT
Pull-up Torque	100 LB-FT
Locked-rotor Torque	110 LB-FT
Starting Current	164 A
No-load Current	8.5 A
Line-line Res. @ 25ºC	0.433 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	33.6
Rotor inertia	2.01 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

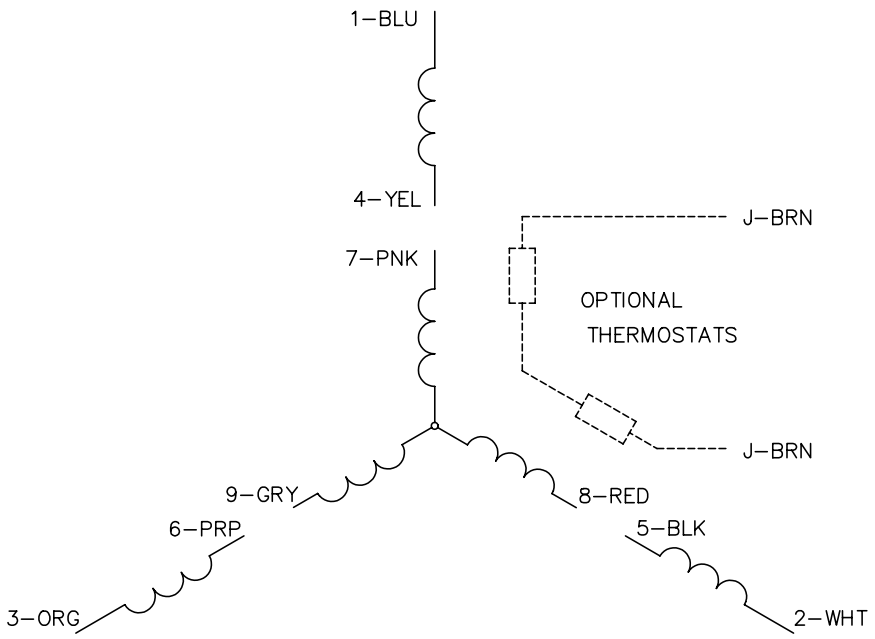
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	52	74	83	87	89	89	88
Efficiency	87.4	91.9	92.8	93	92.2	91.4	92.4
Speed	1792	1784	1775	1767	1757	1748	1761
Line amperes	10.2	13.7	18.2	23.1	28.5	34.2	26.2

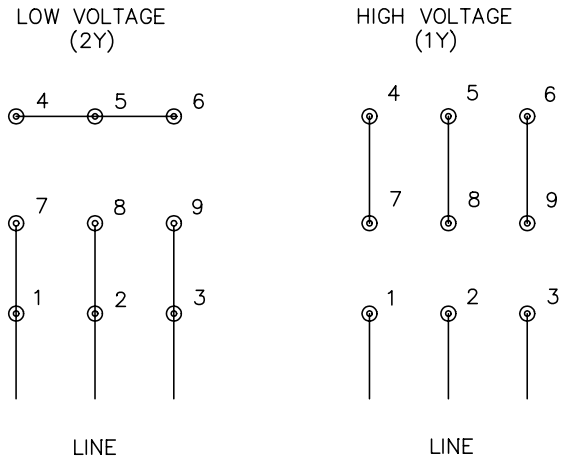
Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values




09LYD001
(928 - 950) = 22.38
9.13
4.22
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
8 HOLES
Ø .53
.75
10.00
4.25
11.50
12.80
10.27
6.29
3.29
12.54
6.25
6.19
LEAD
HOLE
Ø 1.75
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: 09CB3003 WAS 09CB3000(LIFE-CYCLE)
REV: M
VERSION: 06
REVISED: 01:20:43 05/03/2021
TDR: 000001166621
MODEL NO. 09LYD001
REF: -
BY: USODDIL
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