

BALDOR® • RELIANCE 

Product Information Packet

CEM2511T

10HP,1180RPM,3PH,60HZ,256TC,OPSB,F1

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGW950	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	39LYD102	Poles:	06	Created Date:	02-20-2020
Base:		Eff. Date:	04-17-2021	Leads:	9#12		

Specs			
Catalog Number:	CEM2511T	Feedback Device:	NO FEEDBACK
Enclosure:	OPSB	Heater Indicator:	No Heater
Frame:	256TC	Insulation Class:	F
Frame Material:	Steel	Inverter Code:	Inverter Ready
Output @ Frequency:	10.000 HP @ 60 HZ	IP Rating:	NONE
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	KVA Code:	J
Voltage @ Frequency:	460.0 V @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
	230.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3954M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	71
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Blower:	None	Speed Code:	Single Speed

Current @ Voltage:	30.000 A @ 208.0 V	Motor Standards:	NEMA
	28.600 A @ 230.0 V	Starting Method:	Direct on line
	14.300 A @ 460.0 V	Thermal Device - Bearing:	None
Design Code:	A	Thermal Device - Winding:	None
Drip Cover:	No Drip Cover	Vibration Sensor Indicator:	No Vibration Sensor
Duty Rating:	CONT	Winding Thermal 1:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Winding Thermal 2:	None

Nameplate NP1259L										
CAT.NO.	CEM2511T									
SPEC.	39-0000-0268									
HP	10									
VOLTS	230/460									
AMP	28.6/14.3									
RPM	1180									
FRAME	256TC				HZ	60			PH	3
SER.F.	1.15		CODE	J	DES	A		CL	F	
NEMA-NOM-EFF	91.7		PF	71						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			30		
DE	6309				ODE	6208				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA379252	SA 39-0000-0268	1.000 EA
RA369238	RA 39-0000-0268	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HA3154A10	THRUBOLT STUD 3/8-16 X 18.250"	4.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
39EP3400A24	PUEP, MACH - 309 BRG	1.000 EA
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.070 GA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA

AC Induction Motor Performance Data

Record # 13008

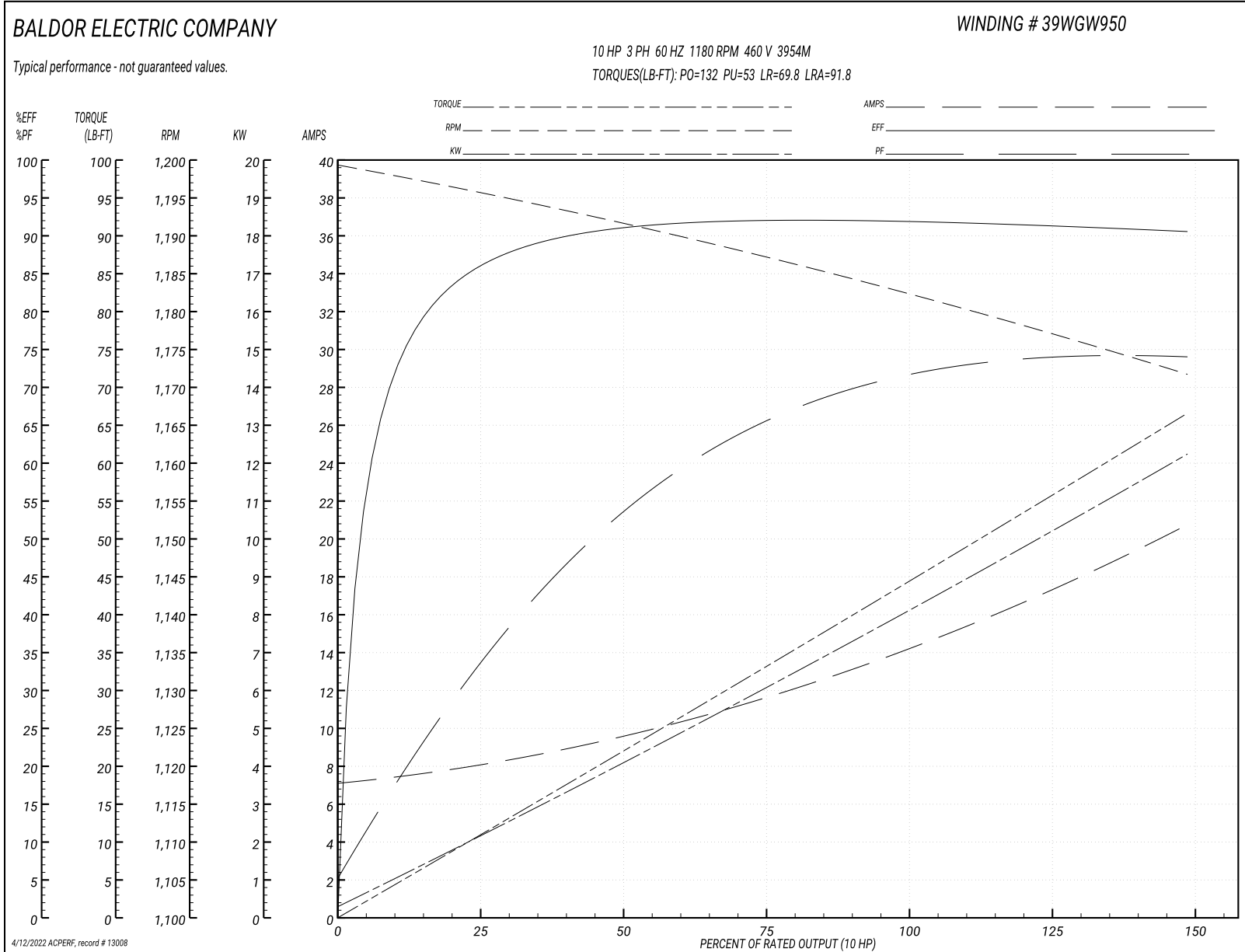
Typical performance - not guaranteed values

Winding: 39WGW950-R001		Type: 3954M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	10	Full Load Torque	44.4 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	28.6/14.3	Breakdown Torque	132 LB-FT		
R.P.M.	1180	Pull-up Torque	53 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	69.8 LB-FT	
NEMA Design Code	A KVA Code	J	Starting Current	91.8 A	
Service Factor (S.F.)	1.15	No-load Current	7.16 A		
NEMA Nom. Eff.	91.7 Power Factor	71	Line-line Res. @ 25°C	0.746 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	22°C		
S.F. Amps		Temp. Rise @ S.F. Load	29°C		
		Locked-rotor Power Factor	25.9		
		Rotor inertia	4.34 lb-ft ²		

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	54	65	71	74	75	73
Efficiency	85.7	91	92	92	91.4	90.5	91.6
Speed	1196	1192	1187	1182	1177	1172	1179
Line amperes	8.04	9.52	11.7	14.25	17.29	20.7	16.07

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 33857

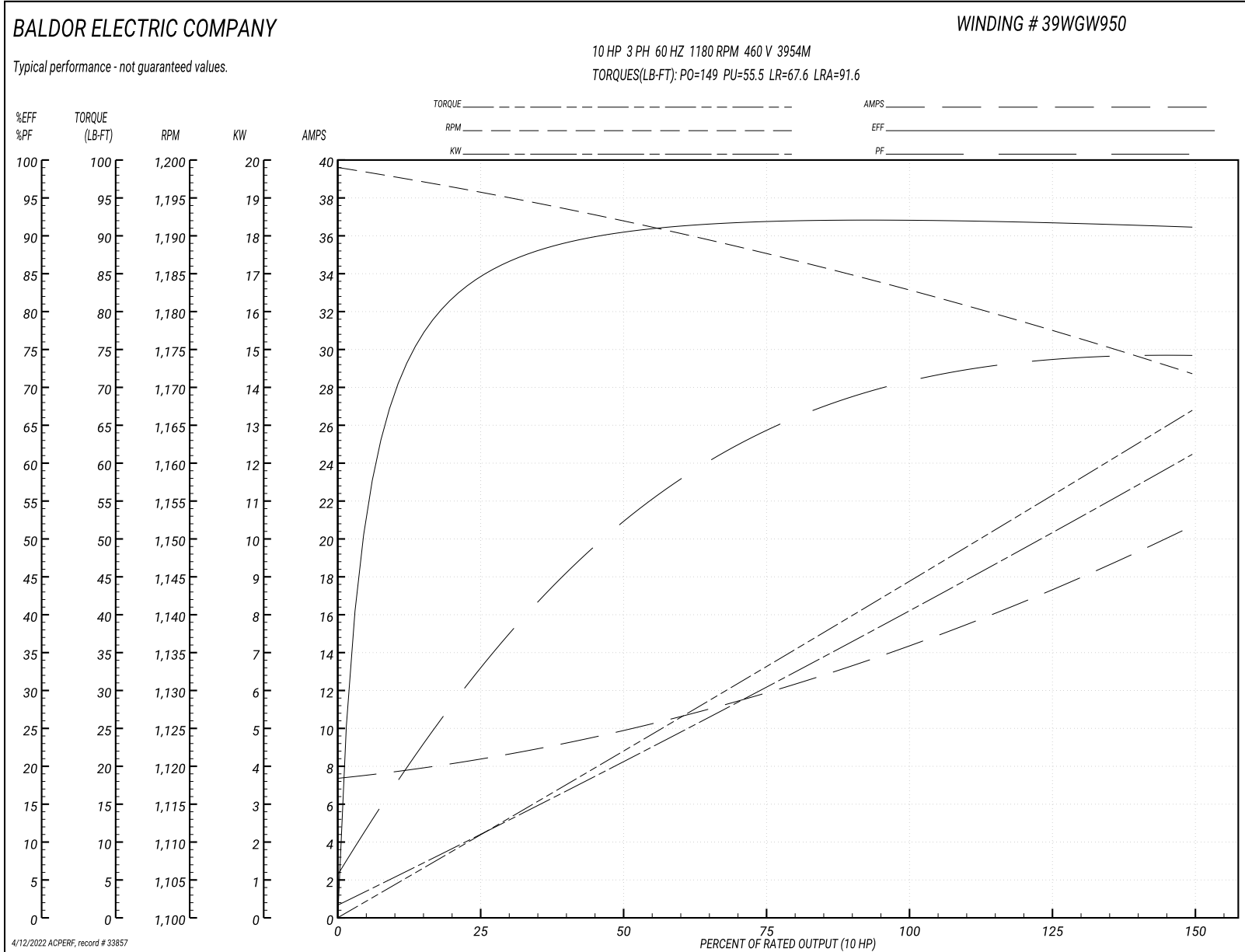
Typical performance - not guaranteed values

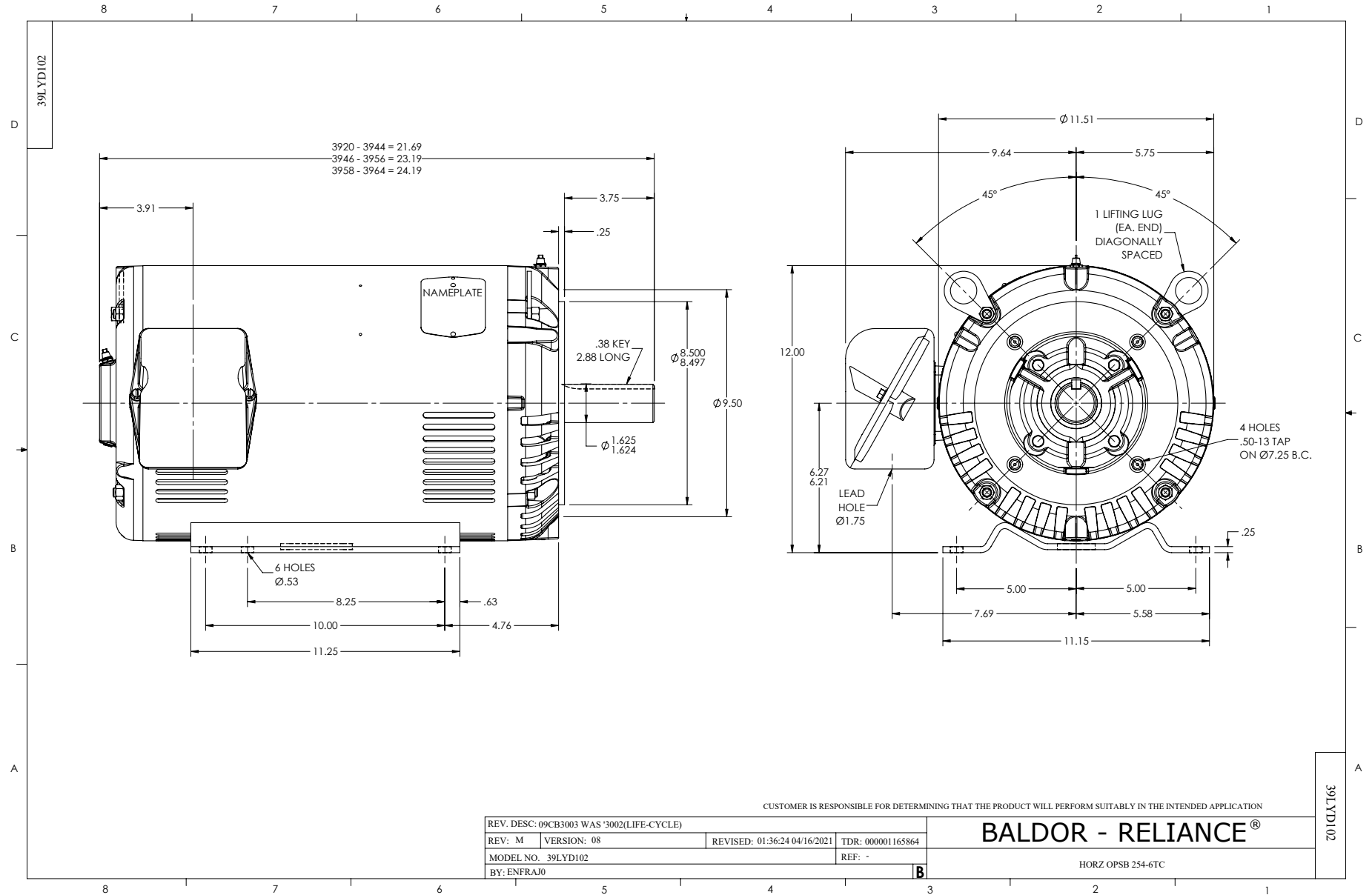
Winding: 39WGW950-R001		Type: 3954M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	10	Full Load Torque	44.1 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	28.6/14.3	Breakdown Torque	149 LB-FT		
R.P.M.	1180	Pull-up Torque	55.5 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	67.6 LB-FT	
NEMA Design Code	A KVA Code	J	Starting Current	91.6 A	
Service Factor (S.F.)	1.15		No-load Current	7.51 A	
NEMA Nom. Eff.	91.7 Power Factor	71	Line-line Res. @ 25°C	0.72568 Ω	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	18°C	
S.F. Amps			Temp. Rise @ S.F. Load	22°C	
			Locked-rotor Power Factor	25.9	
			Rotor inertia	4.34 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 10 HP

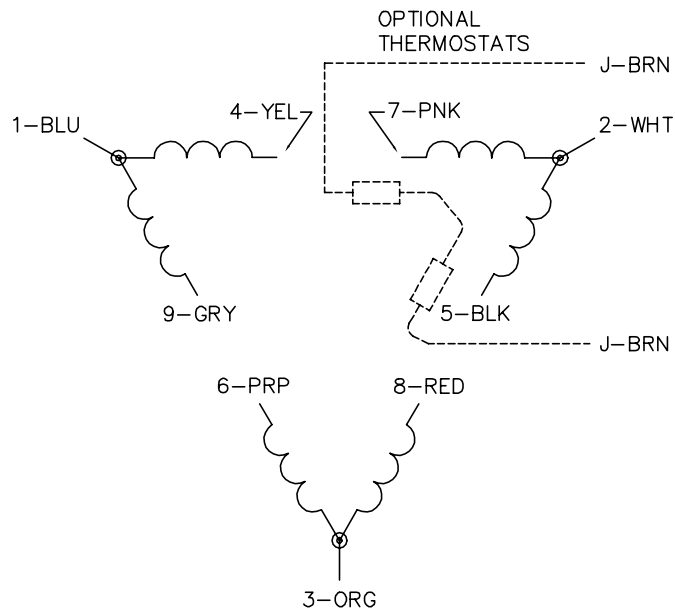
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	64	70	73	74	72
Efficiency	84.5	90.2	91.8	92.1	91.8	91.1	91.9
Speed	1195.9	1191.9	1187.8	1182.8	1177.7	1171.6	1180
Line amperes	8.2	9.72	11.9	14.4	17.5	20.6	16.3

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

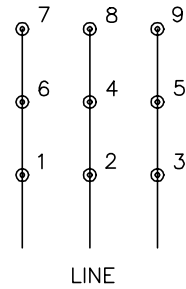




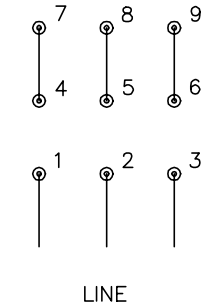
CD0180



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

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3PH, DV, 9 LEADS, DELTA CONNECTION

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