

BALDOR® • RELIANCE 

Product Information Packet

CEM2506T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, OPSB, F1

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX747	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:	CEM2506T	Feedback Device:	NO FEEDBACK
Enclosure:	OPSB	Heater Indicator:	No Heater
Frame:	254TC	Insulation Class:	F
Frame Material:	Steel	Inverter Code:	Inverter Ready
Output @ Frequency:	7.500 HP @ 60 HZ	IP Rating:	NONE
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	KVA Code:	H
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:	3950M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	70
	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:	11.000 A @ 460.0 V	Motor Standards:	NEMA
	22.400 A @ 230.0 V	Starting Method:	Direct on line
Design Code:	A	Thermal Device - Bearing:	None
Drip Cover:	No Drip Cover	Thermal Device - Winding:	None
Duty Rating:	CONT	Vibration Sensor Indicator:	No Vibration Sensor
Electrically Isolated Bearing:	Not Electrically Isolated	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1259L										
CAT.NO.	CEM2506T									
SPEC.	39-0000786									
HP	7.5									
VOLTS	230/460									
AMP	22.4/11									
RPM	1180									
FRAME	254TC				HZ	60			PH	3
SER.F.	1.15		CODE	H	DES	A		CL	F	
NEMA-NOM-EFF	90.2		PF	70						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V					
DE	6309				ODE	6208				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA379253	SA 39-0000786	1.000 EA
RA369239	RA 39-0000786	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
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 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
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 # 70940

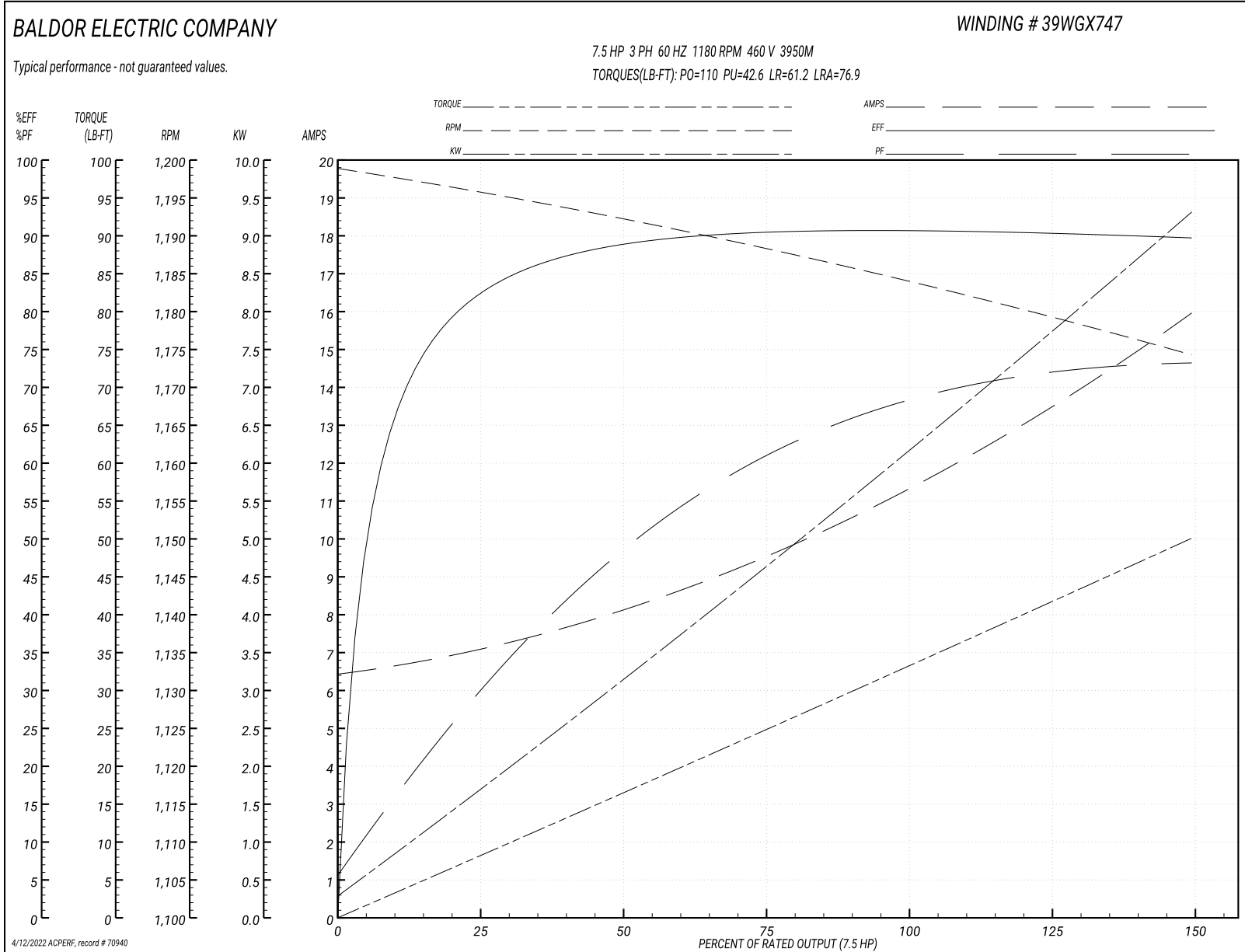
Typical performance - not guaranteed values

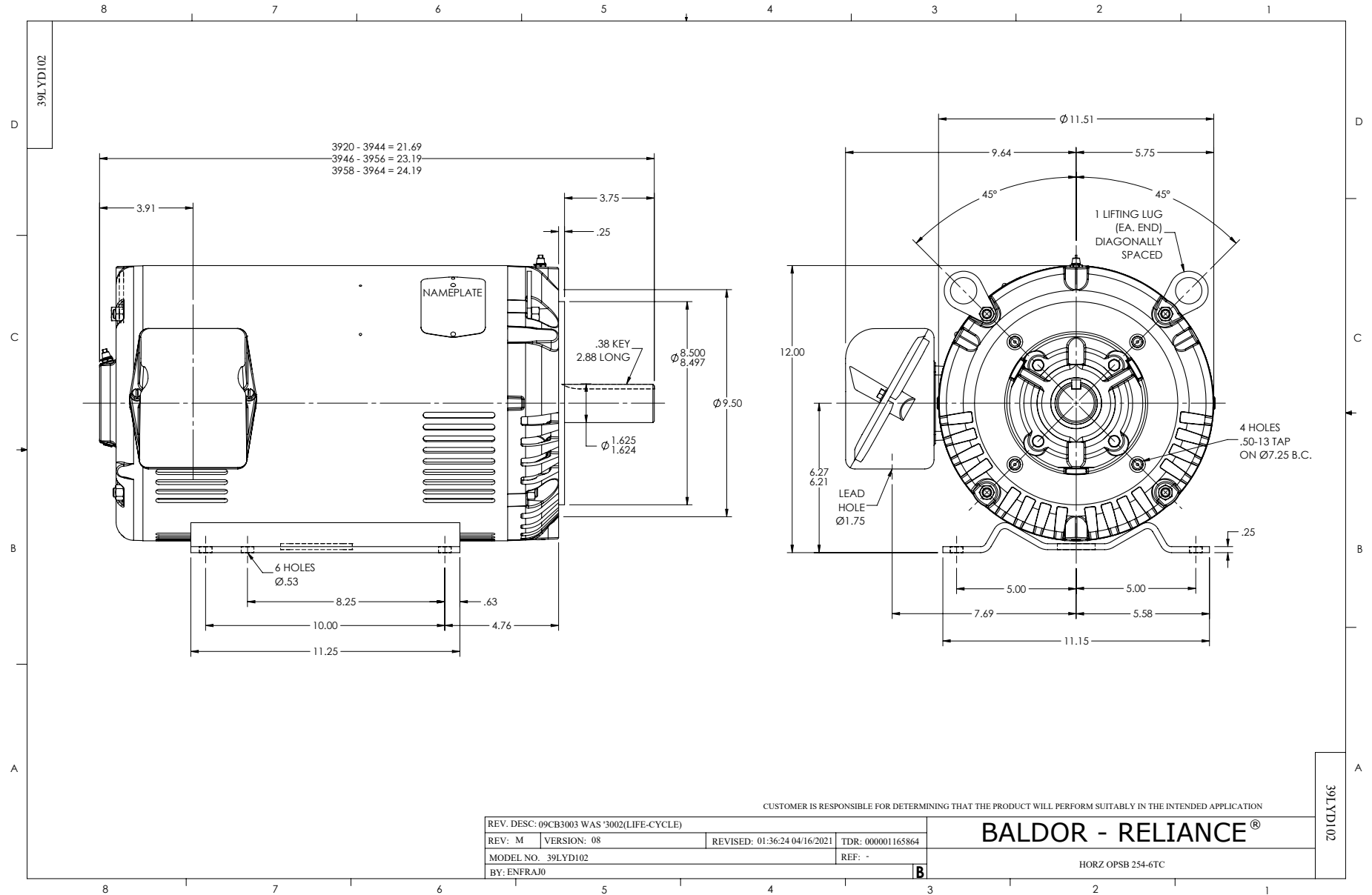
Winding: 39WGX747-R001		Type: 3950M		Enclosure: OPSB	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	7.5	Full Load Torque	33.36 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	22.8/11.4	Breakdown Torque	110 LB-FT		
R.P.M.	1180	Pull-up Torque	42.6 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	61.2 LB-FT	
NEMA Design Code	A	KVA Code	K	Starting Current	76.9 A
Service Factor (S.F.)	1.15	No-load Current	6.51 A		
NEMA Nom. Eff.	90.2	Power Factor	68	Line-line Res. @ 25°C	1.0034 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	27°C	
S.F. Amps			Temp. Rise @ S.F. Load	32°C	
			Locked-rotor Power Factor	26.3	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	61	68	72	74	70
Efficiency	82	88.7	90.4	90.7	90.4	89.6	90.5
Speed	1195.7	1192.4	1188.2	1183.9	1179.4	1174.3	1181
Line amperes	6.99	8.06	9.59	11.4	13.5	15.9	12.7

Performance Graph at 460V, 60Hz, 7.5HP 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

REV. DESC: ADD CLASS CONN00000007		
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MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

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