

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CEM2516T-G**

**25HP,3515RPM,3PH,60HZ,256TC,OPSB,F1**

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX424	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	39LYE477	Poles:	02	Created Date:	08-21-2019
Base:		Eff. Date:	11-11-2021	Leads:	9#12		

Specs			
Catalog Number:	CEM2516T-G	Feedback Device:	NO FEEDBACK
Enclosure:	OPSB	Heater Indicator:	No Heater
Frame:	256TC	Insulation Class:	H
Frame Material:	Steel	Inverter Code:	Inverter Ready
Output @ Frequency:	25.000 HP @ 60 HZ	IP Rating:	NONE
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	KVA Code:	G
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:	3938M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	89
	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:	Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Blower:	None	Speed Code:	Single Speed

<b>Current @ Voltage:</b>	62.000 A @ 208.0 V	<b>Motor Standards:</b>	NEMA
	56.000 A @ 230.0 V	<b>Starting Method:</b>	Direct on line
	28.000 A @ 460.0 V	<b>Thermal Device - Bearing:</b>	None
<b>Design Code:</b>	A	<b>Thermal Device - Winding:</b>	None
<b>Drip Cover:</b>	No Drip Cover	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Duty Rating:</b>	CONT	<b>Winding Thermal 1:</b>	None
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Winding Thermal 2:</b>	None

Nameplate NP3553LUA

CAT.NO.	CEM2516T-G							
SPEC.	39-0000-0193							
HP	25							
VOLTS	230/460							
AMPS	56/28							
RPM	3515							
FRAME	256TC		HZ	60		PH	3	
SF	1.15		CODE	G	DES	A	CLASS	H
NEMA NOM. EFF	91.7		PF	89				
RATING	40C AMB-CONT							
CC	010A		USABLE AT 208V		62			
DE	6309		ODE	6208				
ENCL	OPSB		SN					
VPWM INVERTER READY								
CT30-60(2:1) VT3-60(20:1)								
USABLE AT	50HZ 25HP 190/380V 68/34A						SF1.0	

Parts List		
Part Number	Description	Quantity
SA373557	SA 39-0000-0193	1.000 EA
RA363364	RA 39-0000-0193	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP3553LUA	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HA3154A09	TB STUD 3/8-16 X 16.25	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
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 EA
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	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

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
09CB3003A01	CB W/1.75" DIA LD HL , .31-18 TAP GROUND	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
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 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 # 36405

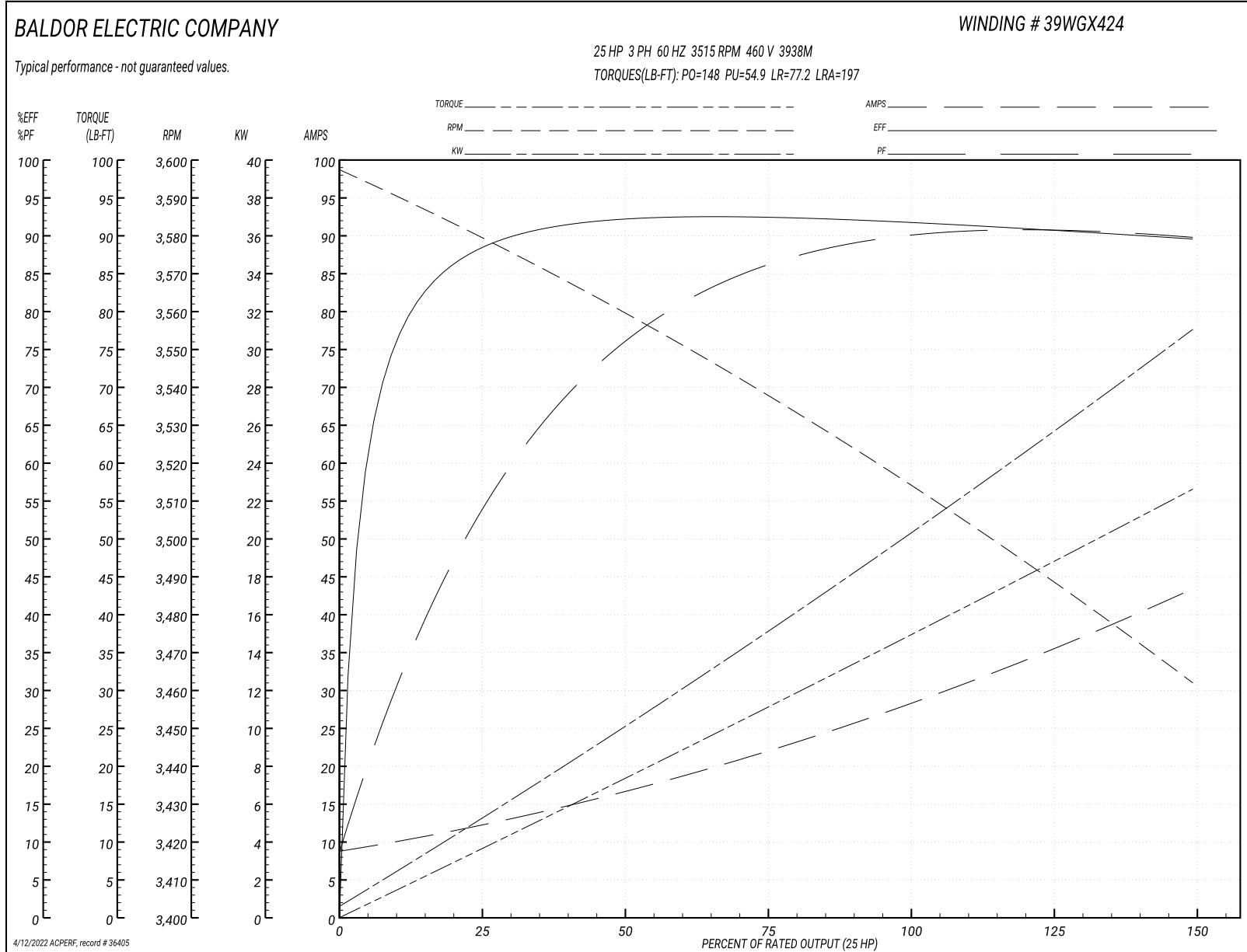
Typical performance - not guaranteed values

<b>Winding:</b> 39WGX424-R006		<b>Type:</b> 3938M		<b>Enclosure:</b> OPSB	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	25	<b>Full Load Torque</b>	37.2 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	56/28	<b>Breakdown Torque</b>	148 LB-FT		
<b>R.P.M.</b>	3515	<b>Pull-up Torque</b>	54.9 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	77.2 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	G	<b>Starting Current</b>	197 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	8.48 A		
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	89	<b>Line-line Res. @ 25°C</b>	0.38245 Ω
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	46°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	57°C		
		<b>Locked-rotor Power Factor</b>	29		
		<b>Rotor inertia</b>	0.971 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 25 HP**

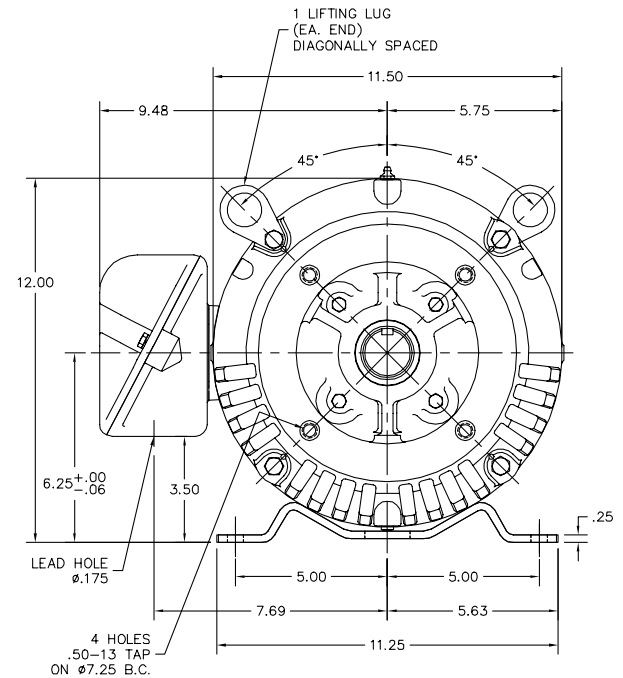
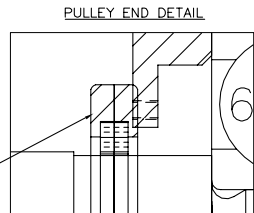
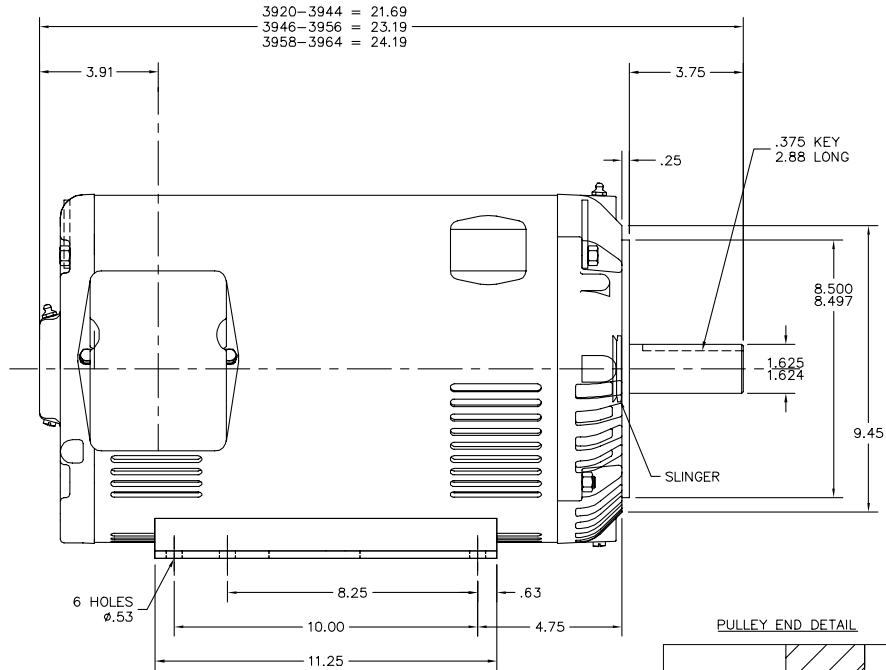
<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	50	79	86	89	90	90	90
<b>Efficiency</b>	87.5	91.8	92.3	91.7	90.7	89.4	91.1
<b>Speed</b>	3578.1	3559.4	3538.9	3515.1	3490	3461	3500
<b>Line amperes</b>	13.1	15.8	21.8	28.4	35.6	43.3	32.7

Performance Graph at 460V, 60Hz, 25.0HP Typical performance - Not guaranteed values





39LYE477



39LYE477

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: 09CB3003 WAS '3002(LIFE-CYCLE)	VERSION: 03	TDR: 000001165917
REV. LTR: C	REVISED: 03:08:07 04/23/2021	BY: ENFRAJO
FILE: \AAA\00194\158		
MTL: -		

**BALDOR - RELIANCE**®  
 HORZ OPSB 254-6TC, AEGIS INT SH GND  
 SH 1 of 1

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		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE**®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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