

ABB BALDOR RELIANCE III

Customer information packet

CEM2516T-G

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

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	256TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	62.000 A @ 208.0 V 56.000 A @ 230.0 V 28.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGX424
Layout	39LYE477
Eff. date	01-15-2026
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	08-21-2019

High Voltage Full Load Amps	28.0 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3938M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	21.69 IN
Power Factor	89
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3515 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

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								
ENCL	OPSB	SN							
DE	6309		ODE	6208					
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
LC0181	CONNECTION LABEL	1.000 ea
NP3553LUA	ALUM SUPER-E VPWM INV READY UL CC NEMA P	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HA3154A09	TB STUD 3/8-16 X 16.25	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	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
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
BP5303A01	AEGIS SH GRD W/RETAINER RING RB3001A30	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

MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.070 ga
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
39PA1000	PACKAGING GROUP 39 PRINT	1.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 36405

Typical performance - not guaranteed values

Winding: 39WGX424-R006				Type: 3938M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25		Full Load Torque		37.2 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		56/28		Breakdown Torque		148 LB-FT		
R.P.M.		3515		Pull-up Torque		54.9 LB-FT		
Hz		60 Phase		3		Locked-rotor Torque		77.2 LB-FT
NEMA Design Code		B KVA Code		G		Starting Current		197 A
Service Factor (S.F.)		1.15				No-load Current		8.48 A
NEMA Nom. Eff.		91.7 Power Factor		89		Line-line Res. @ 25°C		0.38245 Ω
Rating - Duty		40C AMB-CONT				Temp. Rise @ Rated Load		46°C
S.F. Amps						Temp. Rise @ S.F. Load		57°C
						Locked-rotor Power Factor		29
						Rotor inertia		0.971 LB-FT2

Load Characteristics 460 V, 60 Hz, 25 HP

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

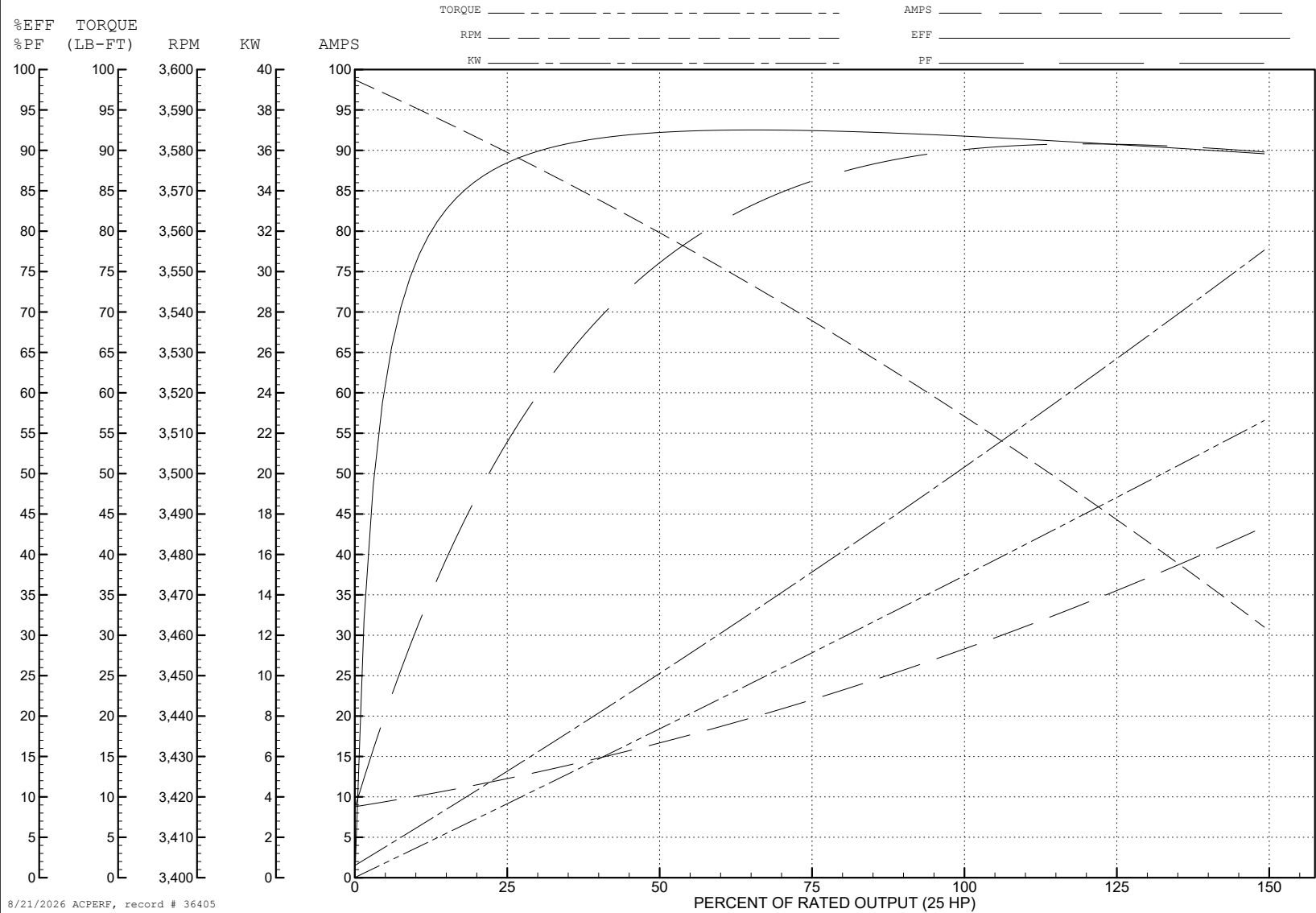
ABB Motors and Mechanical Inc.

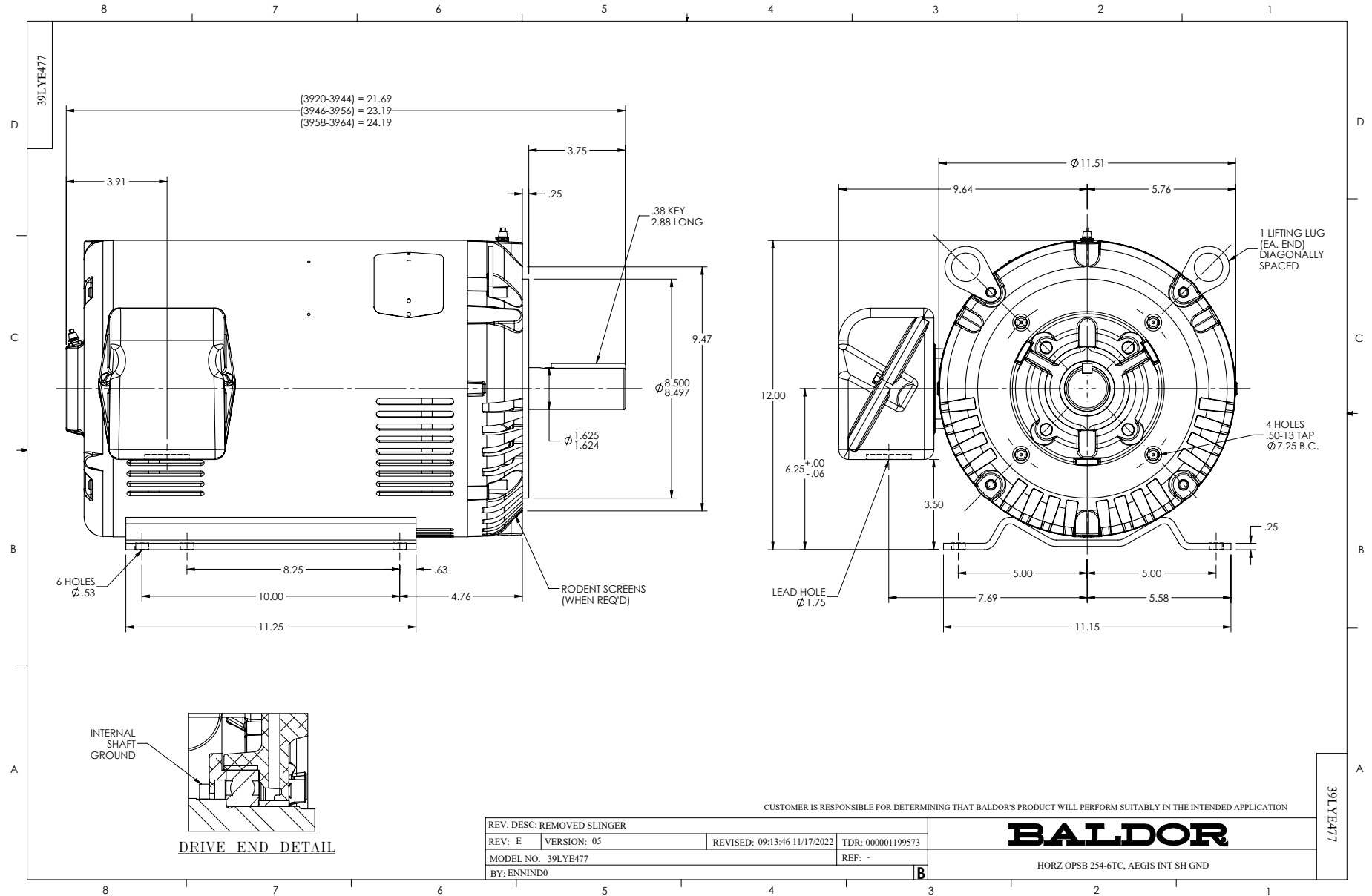
WINDING # 39WGX424

Typical performance - not guaranteed values.

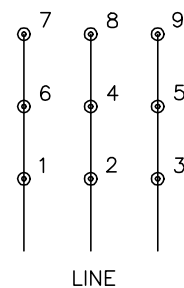
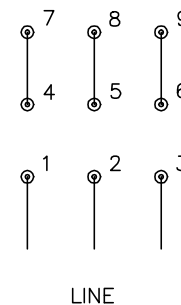
25 HP 3 PH 60 HZ 3515 RPM 460 V 3938M

TORQUES (LB-FT): PO=148 PU=54.9 LR=77.2 LRA=197





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

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