ABB BALDOR RELIANCE

Customer information packet

CEM2513T-G

15HP, 1765RPM, 3PH, 60HZ, 254TC, OPSB, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 1:01:03 AM

Specifications

Enclosure	OPSB
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	36.000 A @ 230.0 V
	18.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	18.0 a

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	39WGY375
Layout	39LYE477
Eff. date	09-30-2026
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	03-03-2020

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	3948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.19 IN
Power Factor	85
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	1765 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.	CEM2513T-G								
SPEC.	39-0000817								
HP	15								
VOLTS	230/460								
AMPS	36.4/18.2								
RPM	1770								
FRAME	254TC	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	H		
NEMA NOM. EFF	93	**PF**	83						
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 15HP 190/380V 44/22A								SF1.0

AC Induction Motor Performance Data
Record # 67094
Typical performance - not guaranteed values

Winding: 39WGY375-R002	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.53 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36/18	**Breakdown Torque**	141 LB-FT
R.P.M.			1765	**Pull-up Torque**	60.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	77.2 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	117 A
Service Factor (S.F.)			1.15	**No-load Current**	6.37 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.62591 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	26°C
S.F. Amps				**Temp. Rise @ S.F. Load**	32°C
				Locked-rotor Power Factor	32.8

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	81	85	87	87	86
Efficiency	89.9	93.1	93.5	93	92.3	91.2	92.6
Speed	1792	1784.7	1776.9	1768	1759.3	1748.7	1763
Line amperes	7.67	10.4	13.8	17.7	21.8	26.5	20.2

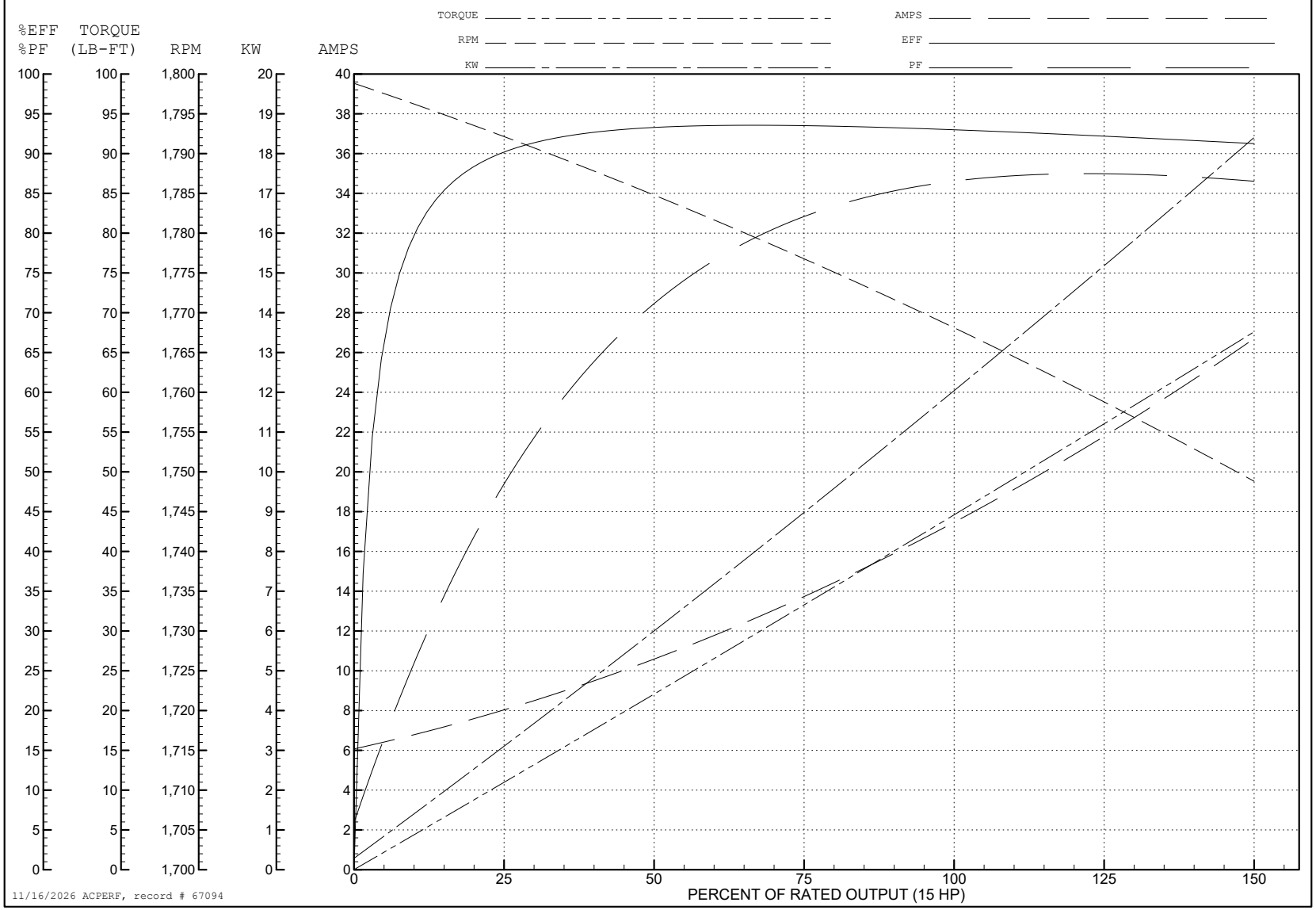
ABB Motors and Mechanical Inc.

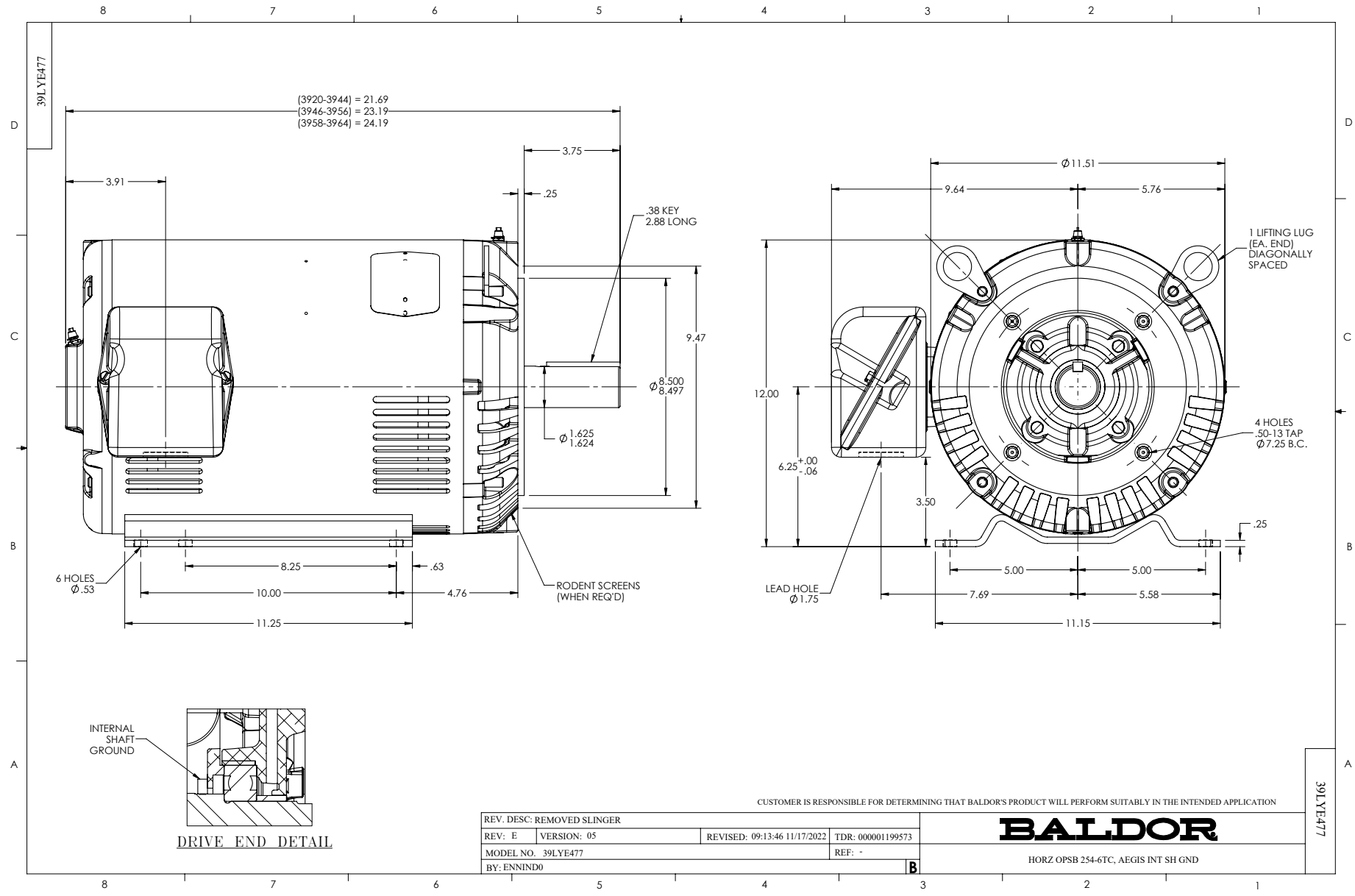
WINDING # 39WGY375

15 HP 3 PH 60 HZ 1765 RPM 460 V 3948M

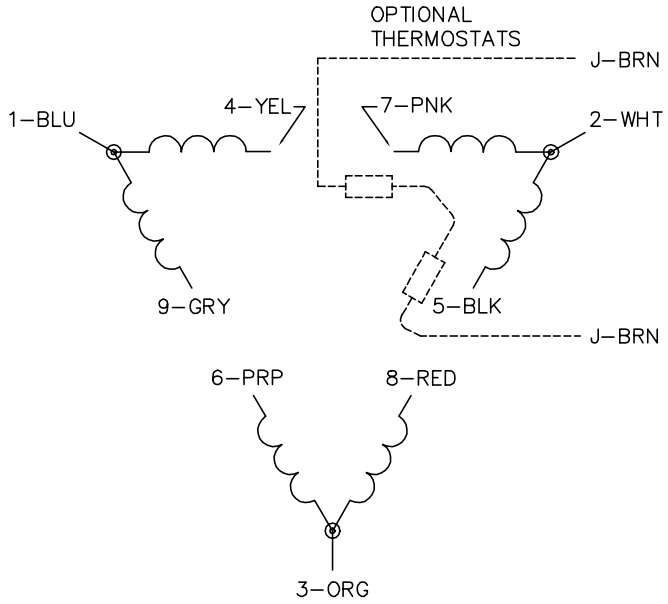
Typical performance - not guaranteed values.

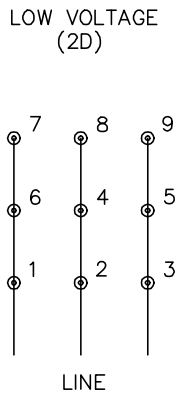
TORQUES(LB-FT): PO=141 PU=60.4 LR=77.2 LRA=117

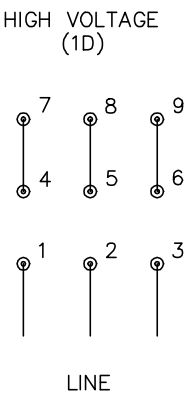



39LYE477
(3920-3944) = 21.69
(3946-3956) = 23.19
(3958-3964) = 24.19
3.91
3.75
.25
.38 KEY
2.88 LONG
9.47
Ø8.500
8.497
Ø1.625
1.624
6 HOLES
Ø.53
8.25
.63
10.00
4.76
11.25
RODENT SCREENS
(WHEN REQ'D)
Ø11.51
9.64
5.76
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
12.00
4 HOLES
.50-13 TAP
Ø7.25 B.C.
6.25 +.00 -.06
3.50
.25
LEAD HOLE
Ø1.75
5.00
5.00
7.69
5.58
11.15
INTERNAL
SHAFT
GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVED SLINGER
REV: E
VERSION: 05
REVISED: 09:13:46 11/17/2022
TDR: 000001199573
MODEL NO. 39LYE477
REF: -
BY: ENNIND0
B
BALDOR
HORZ OPSB 254-6TC, AEGIS INT SH GND
39LYE477

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1