



Customer information packet

CSPM2515T

20HP, 1775RPM, 3PH, 60HZ, 256TC, 3976M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
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	20.000 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	CURUSEEV NEMA_PREMIUM WEEE
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	24.000 A @ 460.0 V 48.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a

Part detail

Revision	C
Type	AC
Mech. spec.	39E763
Base	
Status	PRD/A
Elec. spec.	39WGY451
Layout	39LYE763
Eff. date	12-15-2025
CD Diagram	CD0180
Poles	04
Leads	9#10 Y
Proprietary	False
Created date	11-16-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3976M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.21 IN
Power Factor	84
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP4423A01A05L												
CAT #	CSPM2515T					WGT	423	LBS				
SPEC	39E763Y451					ENCL	OPSB					
SER #						CC	010A	IP	23			
HP	20	MAG CUR				19.6/9.8						
VOLTS	230/460					NEMA NOM. EFF					94.1	
AMPS	48/24						PF	84				
RATING	40C AMB-CONT											
RPM	1775					MAX RPM		2700				
FRAME	256TC	HZ	60	CODE		J	CLASS		F			
SER.F.	1.15	SF AMP	54/27				PH	3	DES	A		
DE	6309		ODE	6208								
LUBRICATION	POLYREX EM											
ID LOGO	INVERTER TYPE			VPWM		CHP	1.5	TO	1	1.5:1		
ID LOGO	WK2	3.32	CT	10	TO	1	10:1					
ID LOGO	SL HZ	0.8	VT	20	TO	1	20:1					
							QR					
YR												

AC Induction Motor Performance Data

Record # 96322

Typical performance - not guaranteed values

Winding: 39WGY451-R001				Type: 3976M		Enclosure: OPSB			
Nameplate Data				460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		20		Full Load Torque		59.41 LB-FT			
Volts		230/460		Start Configuration		direct on line			
Full Load Amps		48/24		Breakdown Torque		230 LB-FT			
R.P.M.		1775		Pull-up Torque		89.8 LB-FT			
Hz		60 Phase		3		Locked-rotor Torque		129 LB-FT	
NEMA Design Code		A		KVA Code		J		Starting Current	188 A
Service Factor (S.F.)		1.15						No-load Current	9.77 A
NEMA Nom. Eff.		94.1		Power Factor		84		Line-line Res. @ 25°C	0.287 Ω
Rating - Duty		40C AMB-CONT						Temp. Rise @ Rated Load	31°C
S.F. Amps								Temp. Rise @ S.F. Load	37°C
								Locked-rotor Power Factor	29.4
								Rotor inertia	3.32 lb-ft²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	79	84	86	87	85
Efficiency	90	93	94	94	93	93	93.4
Speed	1794	1789	1782	1776	1769	1761	1772
Line amperes	11.34	14.62	18.96	23.86	29.08	34.76	27

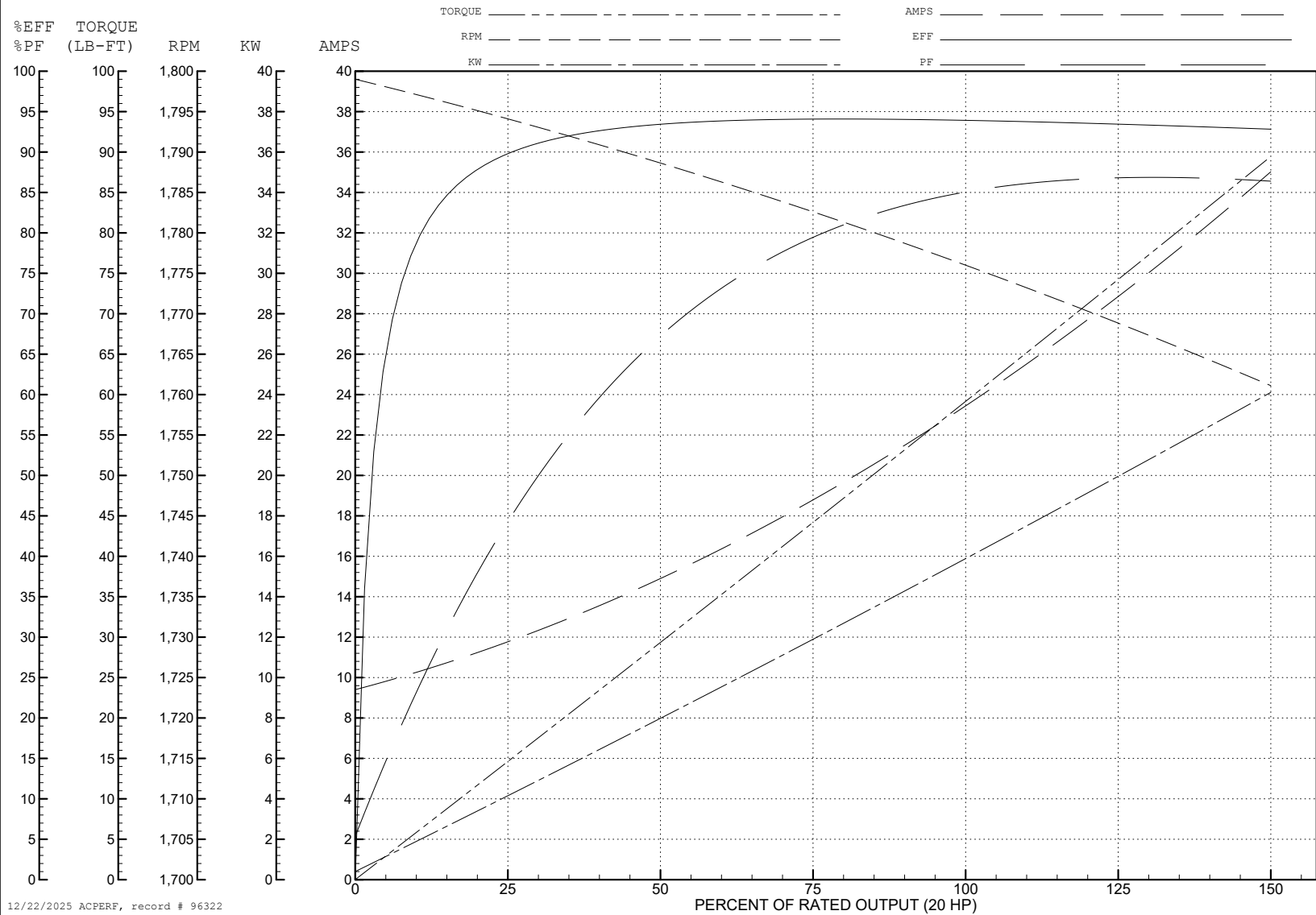
ABB Motors and Mechanical Inc.

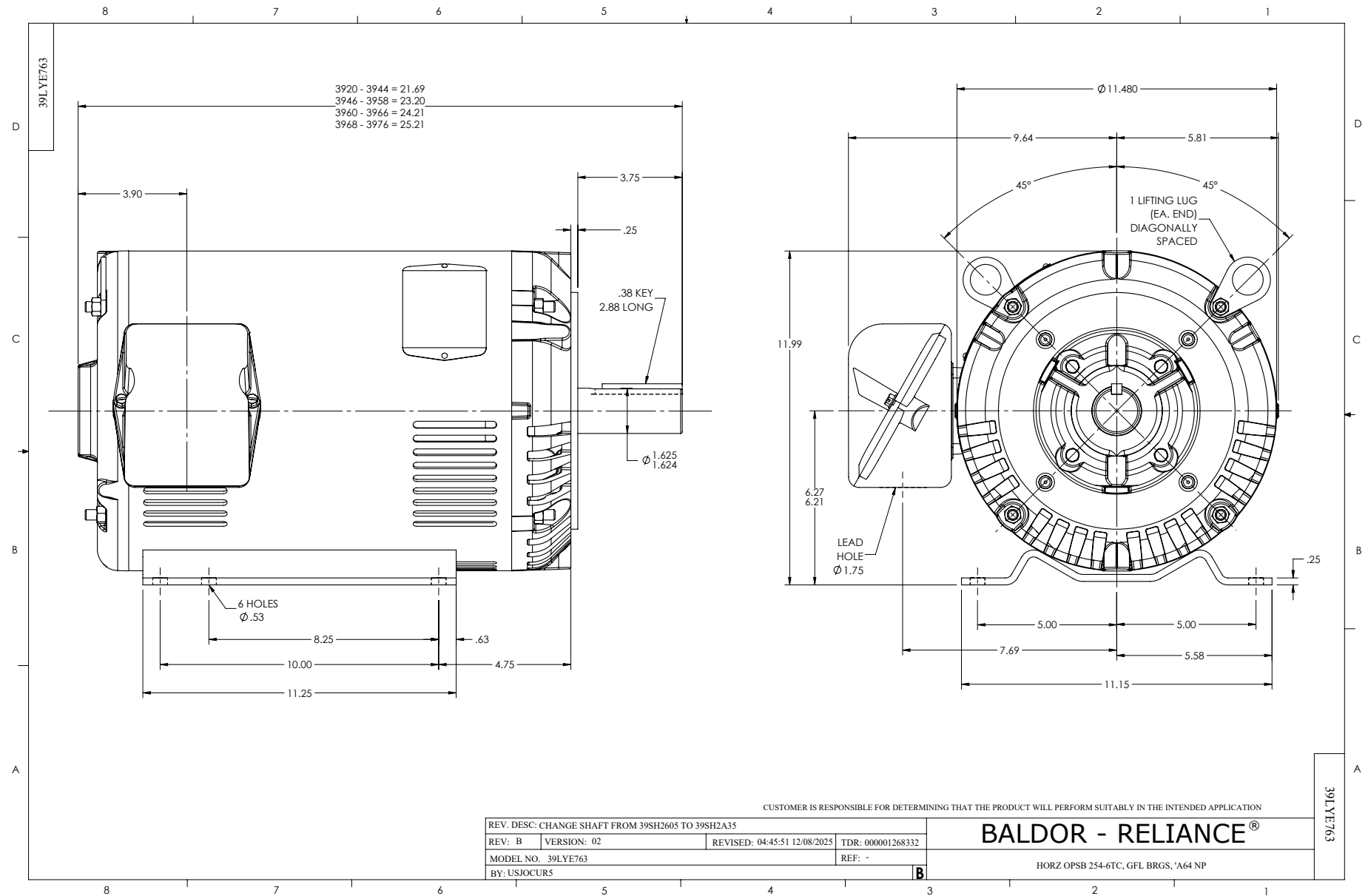
WINDING # 39WGY451

Typical performance - not guaranteed values.

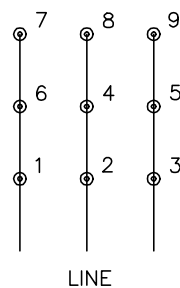
20 HP 3 PH 60 HZ 1775 RPM 460 V 3976M

TORQUES (LB-FT): PO=230 PU=89.8 LR=129 LRA=188





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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