



Product Information Packet

EM2515T-5

20HP,1765RPM,3PH,60HZ,256T,3948M,OPSB,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX995	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	39K57	Layout:	39LYK057	Poles:	04	Created Date:	09-08-2016
Base:	RG	Eff. Date:	10-14-2020	Leads:	3#12		

Specs			
Catalog Number:	EM2515T-5	Inverter Code:	Inverter Ready
Enclosure:	OPSB	KVA Code:	G
Frame:	256T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 12 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3948M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	85
	CSA EEV	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	19.100 A @ 575.0 V	Shaft Rotation:	Reversible

Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP3553L

CAT.NO.	EM2515T-5										
SPEC	39K057X995										
HP	20										
VOLTS	575										
AMPS	19.1										
RPM	1765										
FRAME	256T					HZ	60			PH	3
SF	1.15		CODE	G	DES	A		CLASS	F		
NEMA NOM. EFF	93			PF	85						
RATING	40C AMB-CONT										
CC	010A					USABLE AT 208V					
ENCL	OPSB			SER							
DE	6309				ODE	6208					
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

Parts List		
Part Number	Description	Quantity
SA326996	SA 39K057X995	1.000 EA
RA314903	RA 39K057X995	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	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
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
39EP3201A13	PU ENDPLATE, MACH	1.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	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
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL CSA-	1.000 EA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
LD7020D03	LEAD SET, 12AWG, 3 LEAD, 20" LONG LEADS	1.000 EA

Accessories		
Part Number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 59141

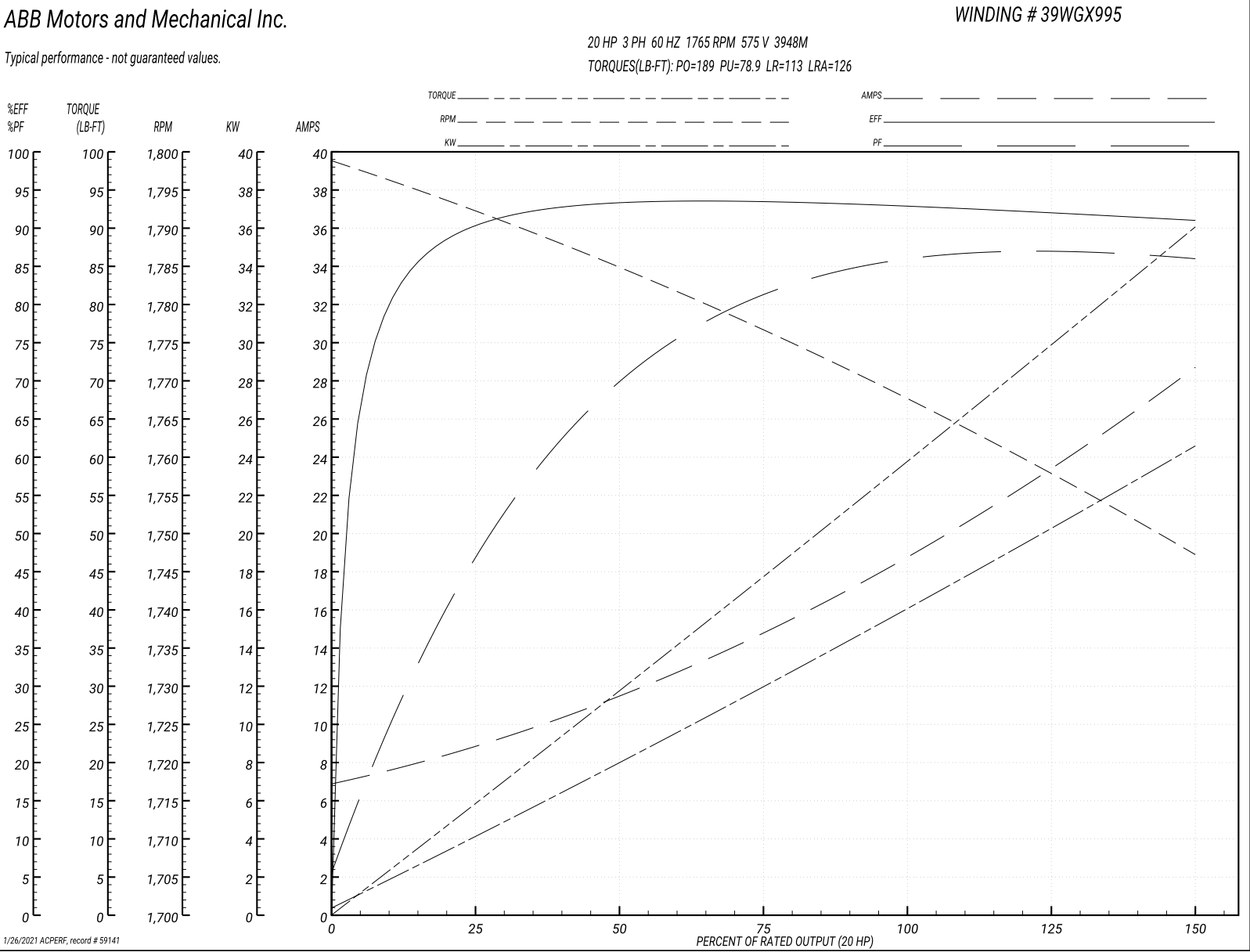
Typical performance - not guaranteed values

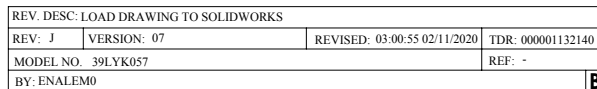
Winding: 39WGX995-R001			Type: 3948M	Enclosure: OPSB	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		20	Full Load Torque		59.7 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		19.1	Breakdown Torque		189 LB-FT
R.P.M.		1765	Pull-up Torque		78.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	113 LB-FT
NEMA Design Code	A	KVA Code	G	Starting Current	126 A
Service Factor (S.F.)		1.15	No-load Current		7.18 A
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.711 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		37°C
S.F. Amps			Temp. Rise @ S.F. Load		46°C
			Locked-rotor Power Factor		33.3
			Rotor inertia		2.1 lb-ft²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	72	81	85	86	87	86
Efficiency	90.2	93.1	93.4	93.1	92.1	91	92.5
Speed	1792	1785	1776	1768	1758	1747	1762
Line amperes	8.49	11.3	14.9	19.1	23.6	28.5	21.8

Performance Graph at 575V, 60Hz, 20.0HP Typical performance - Not guaranteed values





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

3-ORG

2-WHT

J-BRN

J-BRN

OPTIONAL THERMOSTATS

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

2-WHT

3-ORG

J-BRN

J-BRN

OPTIONAL THERMOSTATS

1

2

3

LINE

NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.

2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.

5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1

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