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Miscellaneous

Model No: 5011LXVFS6579
Catalog No: Y935

Medium And High Voltage NEMA Motor, 350 HP, 3 Ph, 60 Hz, 2300/4000 V, 1200 RPM, 5011LX Frame, TEFC

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Product Information Packet: Model No: 5011LXVFS6579, Catalog No: Y935 Medium And High Voltage NEMA Motor, 350 HP, 3 Ph, 60 Hz, 2300/4000 V, 1200 RPM, 5011LX Frame, TEFC

Nameplate Specifications

Phase	**3**	Output HP	**350 Hp**
Output KW	**260.0 kW**	Voltage	**2300/4000 V**
Speed	**1190 r/min**	Synchronous RPM	**1200 r/min**
Service Factor	**1.15**	Frame	**5011LX**
Enclosure	**Totally Enclosed Fan Cooled**	Thermal Protection	**No Protection**
Efficiency	**95.8 %**	Ambient Temperature	**40 °C**
Frequency	**60 Hz**	Current	**81.5/47.0 A**
Power Factor	**83**	Duty	**Continuous**
Insulation Class	**H**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6324**
Opp Drive End Bearing Size	**6318**	UL	**No**
CSA	**Y**	CE	**N**
IP Code	**55**	Number of Speeds	**1**

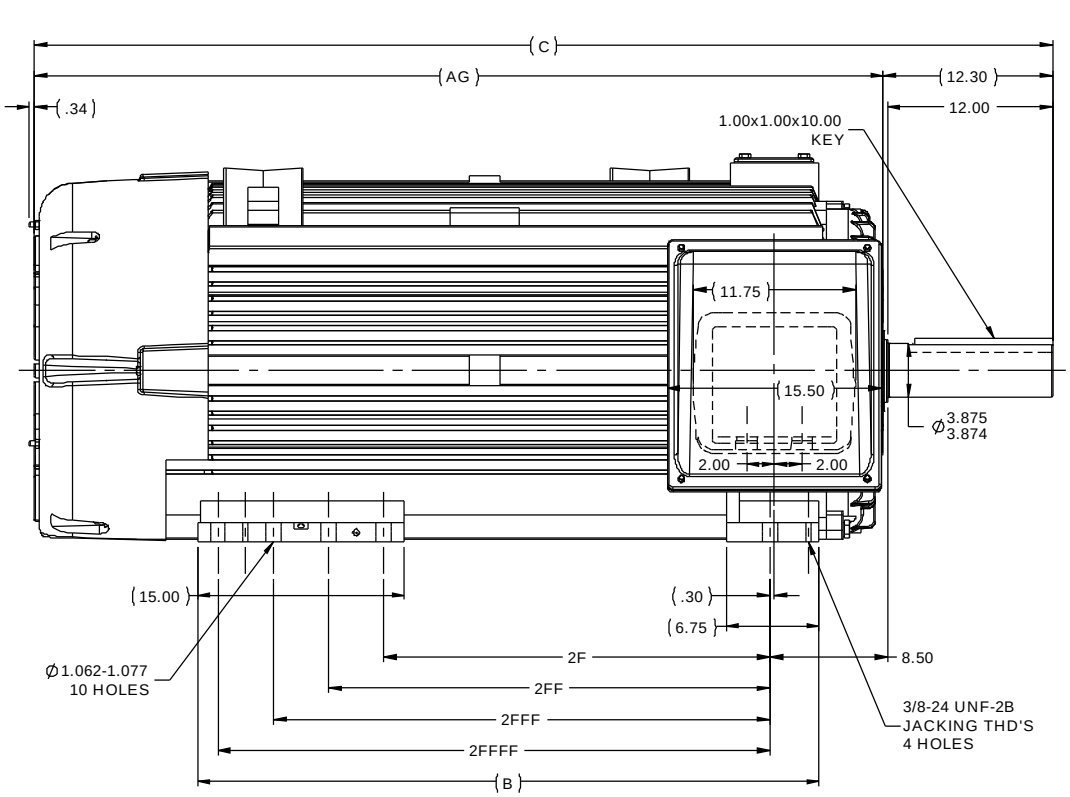
Technical Specifications

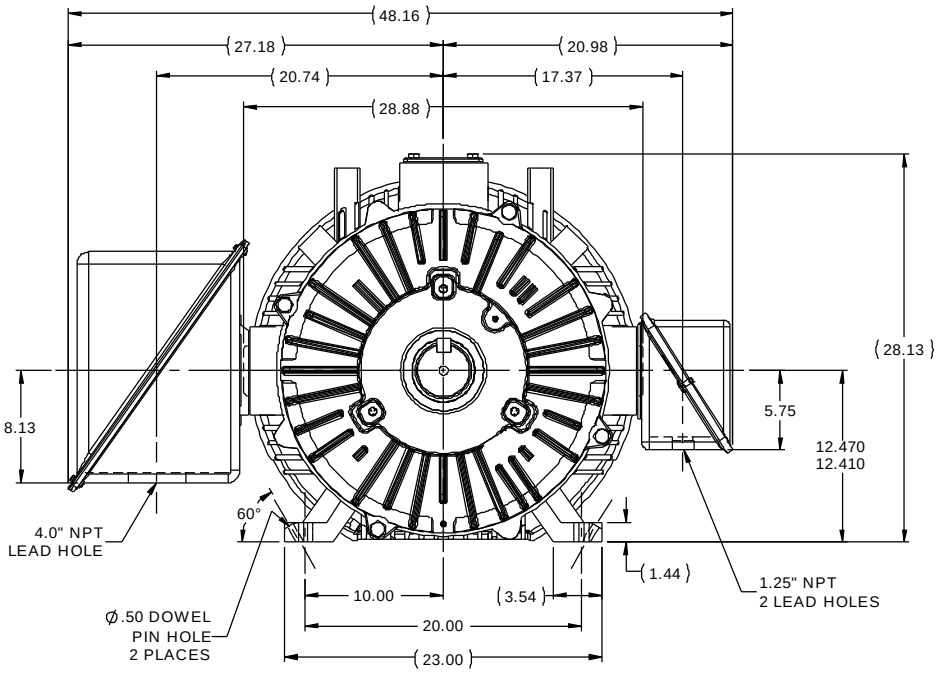
Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Resistance Main	**.28 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**LX**	Overall Length	**73.8 in**
Frame Length	**49.5 in**	Shaft Diameter	**3 7/8 in**
Shaft Extension	**12.3 in**	Assembly/Box Mounting	**F1/F2 Capable**

Drawings

Connection Drawing	**A-EE7304AC**	Outline Drawing	**B-SS518707-4950**

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NOTES:
1. MAIN CONDUIT BOX CAN BE ROTATED IN 90º STEPS.
2. AUX. CONDUIT BOX CAN BE ROTATED 180º.
3. NAMEPLATES TO BE READ FROM MAIN CONDUIT BOX SIDE OF MOTOR.
4. MOTOR WEIGHT (MAXIMUM) = 5,500 LBS.

(B-SS518452)

DASH	FRAME	B	C	AG	2F	2FF	2FFF	2FFFF
4950	5009LX	45.05	73.80	61.51	28.00			
4950	5010LX	45.05	73.80	61.51		32.00		
4950	5011LX	45.05	73.80	61.51			36.00	
4950	5012LX	45.05	73.80	61.51				40.00

NO	REVISION	BY & DATE	CHK
4	REDRAWN IN SOLIDWORKS -FIXED BS DIM PER ECO-0036077	JHA 08-30-2013	DJK
3	ADDED .50" MATERIAL TO C'BOX MTG. AREA, 48.08 WAS 47.58, 27.18 WAS 26.68, 20.75 WAS 20.25 CN 37629	MSG 02-26-2004	ML
2	ADDED MISSING FOOT DIMENSIONS CN 34303	HLB 11-06-2001	
1	NEW DRAWING - DEV ENG CN 4303	HLB 09-19-2001	

TOLERANCES UNLESS SPECIFIED
DEC INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±7'30"

THIRD ANGLE PROJECTION

RFP
PREV
NETWORK FILE NAME SS518707

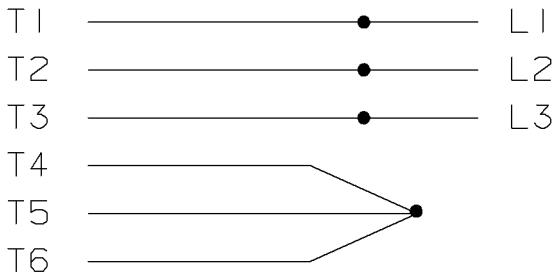
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TITLE OUTLINE - TEFC - F1/F2/F3 MOUNT
5009-12LX FR. - CAST CONDUIT BOX
MAT'L
FINISH

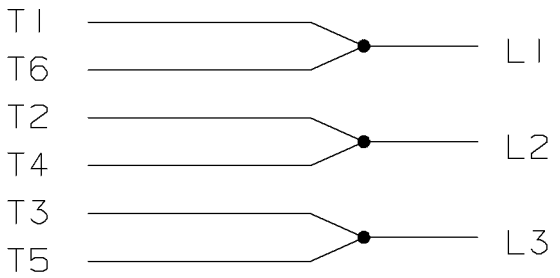
DRAWN HLB 09-07-2001
CHK ML 09-19-2001
APPR GK 09-19-2001
SCALE 1:9
REF
FMF
PAGE OF

SIZE B
DRAWING NO SS518707
REV 4

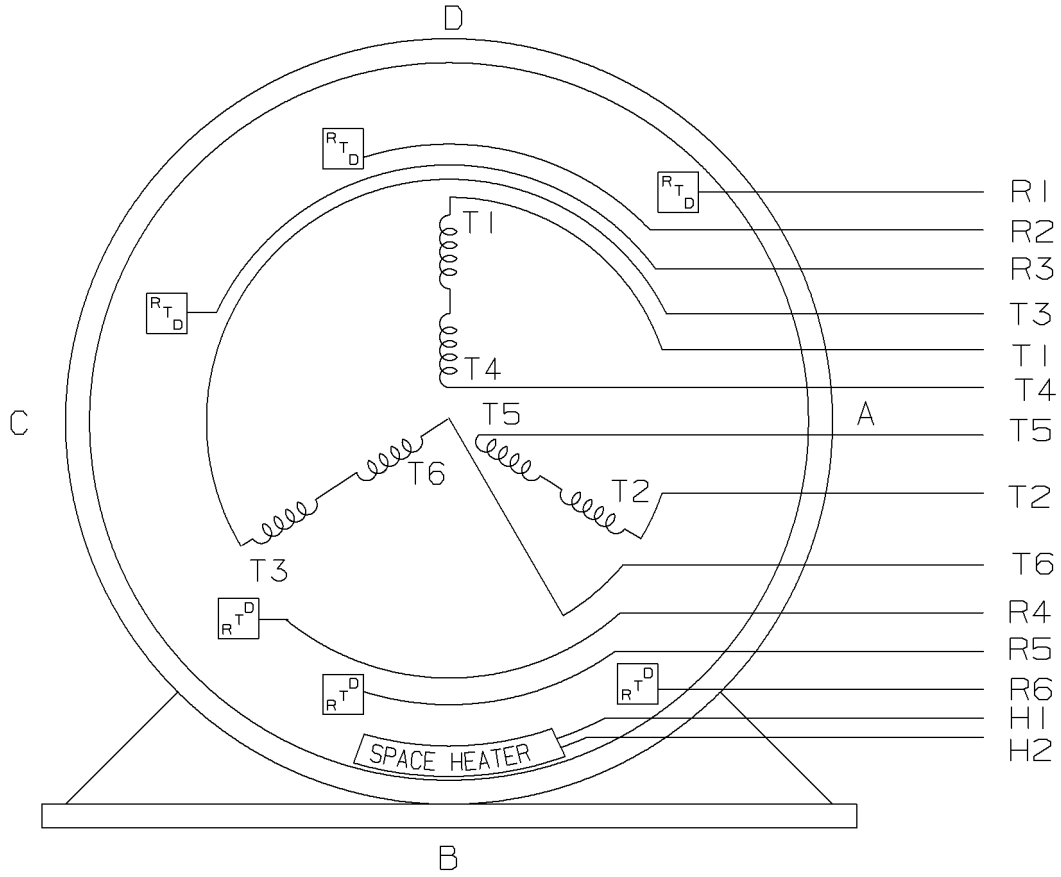
HIGH VOLTAGE "Y" CONNECTION



LOW VOLTAGE - DELTA



THREE PHASE - DUAL VOLTAGE WITH 6 RTD'S 2 PER PHASE AND SPACE HEATER



VIEW OF TERMINAL END

REV	DATE	CHANGE	NAME
1		NEW DRAWING MU 25017	CAE

√ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOL. ON XX± XXX± .005 XXXX± .0005 ANGLES±

MATL SPEC

FINISH

MARATHON ELECTRIC
WAUSAU, WISCONSIN 54401

DRAWN BY CAE 05-07-1999
CHKD BY
APPD BY

PART NAME CONNECTION DIAGRAM - THREE PHASE DUAL VOLTAGE 6 RTD'S & SPACE HEATER

DRWG NO A- EE7304AC

SHOP BOOK | PURCHASED | DISTRIBUTION - WA - LB - WP - LM | CADD FILE NO. EE7304AC

8/26/2007 7:28:24 PM -

```
ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

-dictionary-
-dictionary-
/Pscript_WinNT_Compat
-dictionary-
```

Data Sheet

Date: 29-06-2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

5011LXVFS6579

Submittal

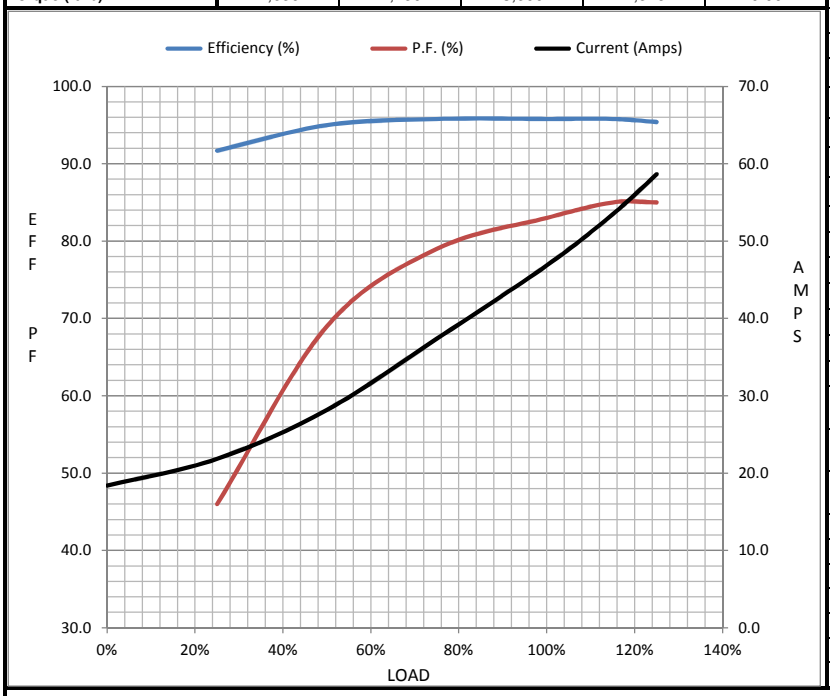
Data @ 4000 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	18.4	21.9	28.2	37.4	46.9	53.5	58.7	293	
Torque (ft-lb)	0.00	384	769	1,156	1,545	1,778	1,935	1,650	
RPM	1200	1198	1195	1192	1190	1,188	1185	0	
Efficiency (%)		91.7	95.0	95.8	95.8	95.8	95.4		
P.F. (%)	4.0	46.0	69.0	79.0	83.0	85.0	85.0	20.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1150	1190	1200
Current (Amps)	293	273	158	46.9	18.4
Torque (ft-lb)	1,650	1,450	3,600	1,545	0.00



Information Block

HP	350.0
Sync. RPM	1200
Frame	5011
Enclosure	TEFC
Construction	TFN
Voltage	2300/4000 V
Frequency	60 Hz
Design	A
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	75 ° C
Duty	CONT
Ambient	40 ° C
Elevation	1,000 feet
Rotor/Shaft wk²	340 Lb-Ft²
Ref Wdg	V511630 NONE
Sound Pressure @ 1M	75 dBA
VFD Rating	NONE
Outline Dwg	B-SS518707-4950
Conn. Diag	A-EE7304AC

Additional Specifications:

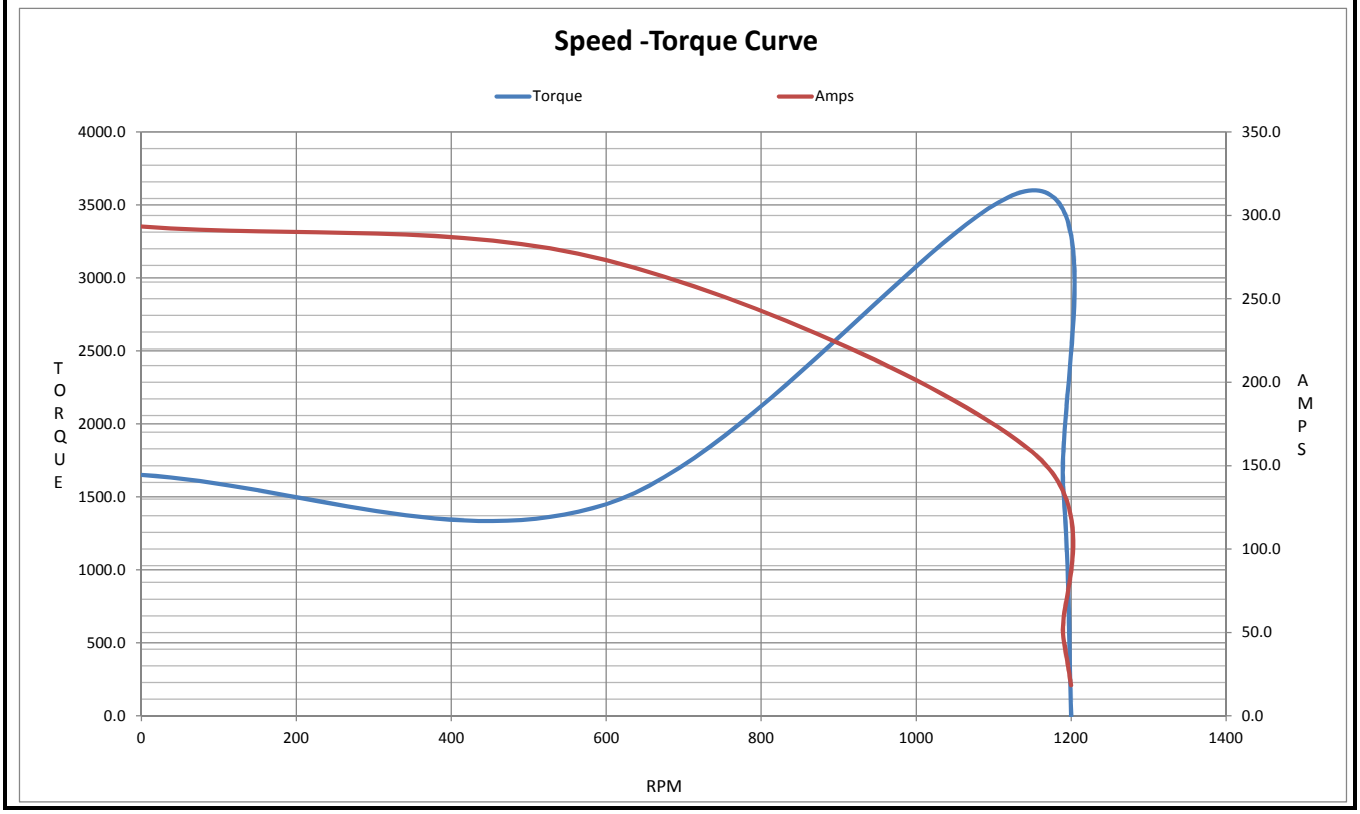
0

365THFS8036

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.7370	0.4300	4.5440	7.0610	143.3660

Speed -Torque Curve



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CERTIFICATION DATA SHEET

Model#:	5011LXVFS6579 DE	**WINDING#:**	V511630 NONE 0
CONN. DIAGRAM:	A-EE7304AC	**ASSEMBLY:**	F1/F2 CAPABLE
OUTLINE:	B-SS518707-4950		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
350	260	1200	1190	5011LX	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	2300/4000	81.5/47	ACROSS THE LINE	CONTINUOUS	H	1.15	40	3300

FULL LOAD EFF: 95.8	3/4 LOAD EFF: 95.8	1/2 LOAD EFF: 95	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83	3/4 LOAD PF: 79	1/2 LOAD PF: 69	95.4	SQ CAGE IND RUN	32 / 18.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
1545 LB-FT	510 / 293.3	1650 LB-FT 107	3600 LB-FT 233	75

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	340 LB-FT^2	- LB-FT^2	20 SEC.	-	4700 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	PREMIUM SEVERE DUTY	NONE	FALSE	NONE	BLUE (EPOXY)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	SHC-100/POLYREX	LX	NONE	NONE	4140 STRESSPROOF (C-214)	CAST IRON
6324	6318						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	PLATINUM TWO PER PHASE 100	NONE	NONE	FALSE	120 VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

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