PRODUCT INFORMATION PACKET

Model No: 811660.00
Catalog No: 811660.00
75 HP Severe Duty Motor, 3 phase, 1200 RPM, 460 V, 405T Frame, TEFC
Severe Duty Motors

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Nameplate Specifications

Output HP	75 Hp	Output KW	56.0 kW
Frequency	60 Hz	Voltage	460 V
Current	89.5 A	Speed	1185 rpm
Service Factor	1.15	Phase	3
Efficiency	94.5 %	Power Factor	83
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	405T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6313
UL	Recognized	CSA	Y
CE	Y	IP Code	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	.09 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	37.14 in
Frame Length	16.75 in	Shaft Diameter	2.875 in
Shaft Extension	7.25 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U	Outline Drawing	B-SS508859-1675

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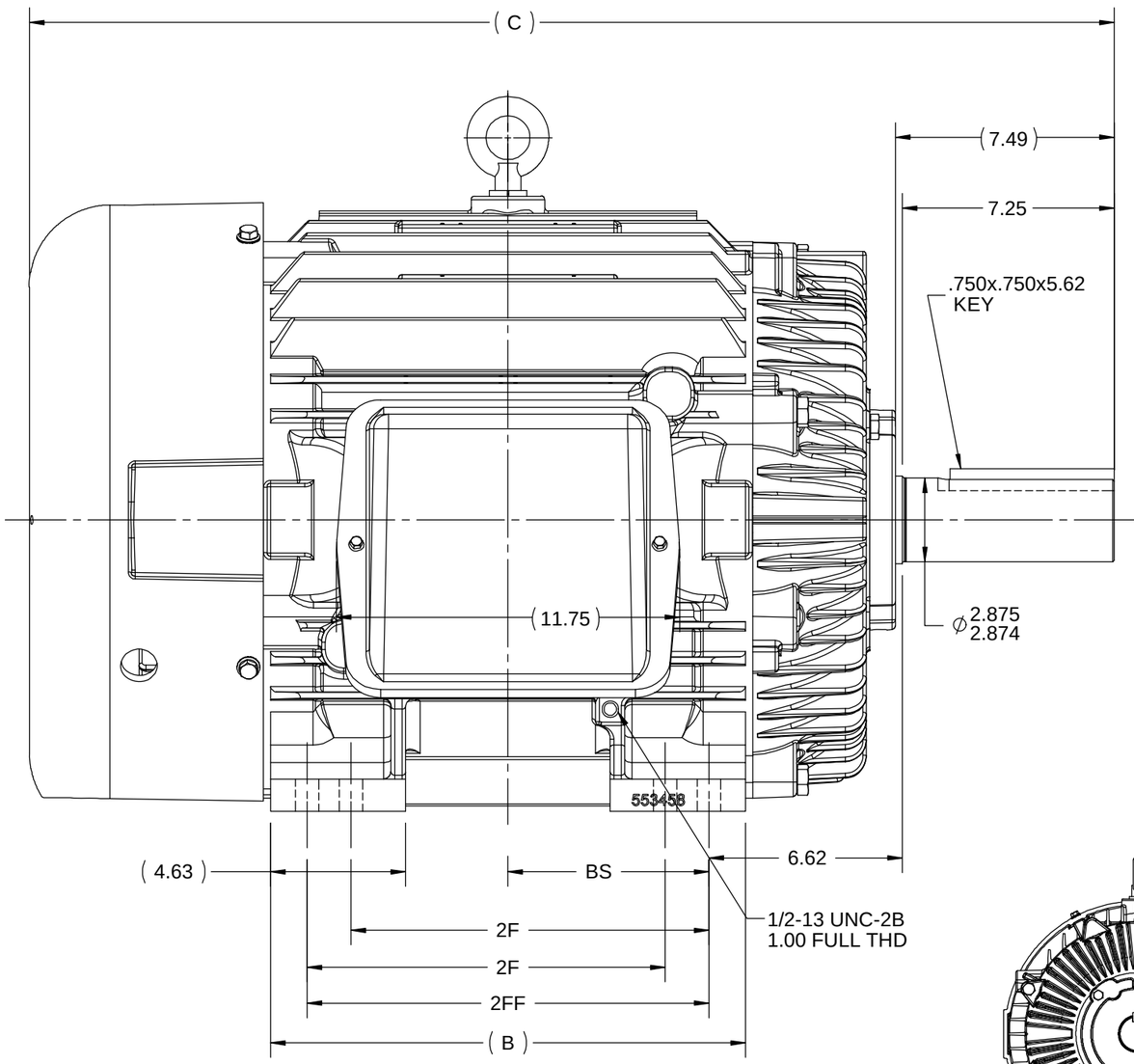

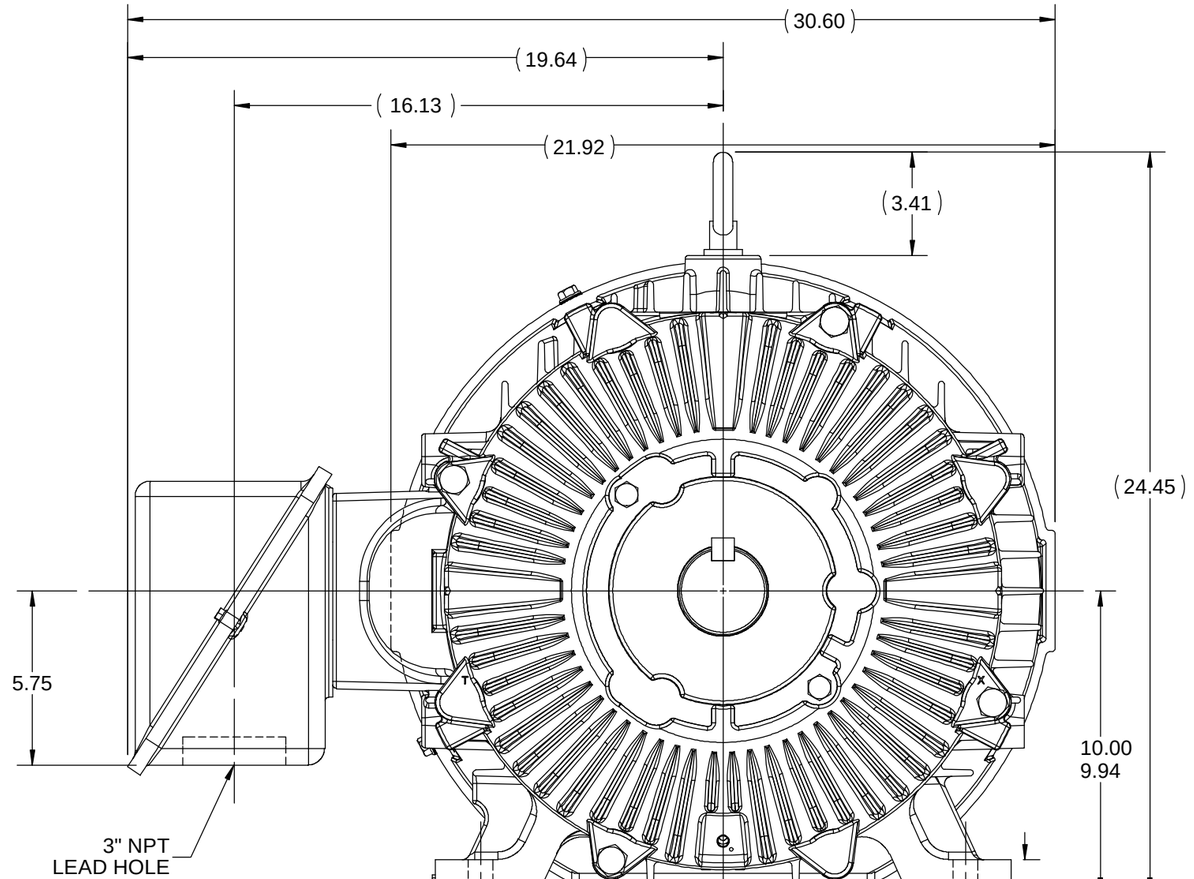

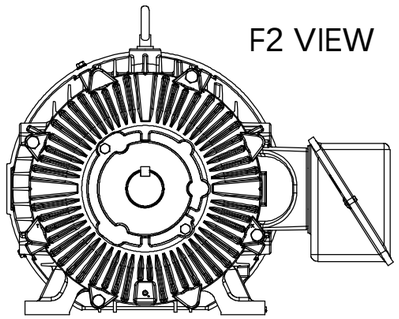

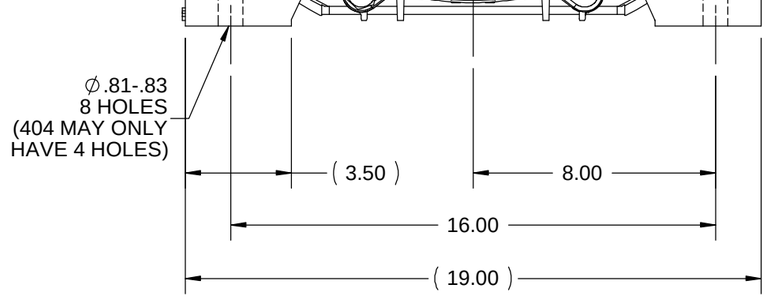

NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
1525	404T	14.75	35.62	12.25	----	6.12
1675	404/405T	16.25	37.14	12.25	13.75	6.88

DRAWING REVISION	REVISION BY	DATE
F	ZR	08-01-2018
ECO	APPROVED BY	DATE
ECO-0149979	TRK	08-01-2018

ECO DESCRIPTION
UPDATE TO CURRENT STANDARDS

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381]
CORNER FILLETS: .02 [.51]
MACHINED SURFACES: 200 / INCH 5.1 / mm
mm SHOWN IN [BRACKETS]

DRAWN BY	DATE	APPROVED BY	DATE	REFERENCE
TLB	05-19-1988	ML	05-22-1988	

THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
400T FR.-TAPPED LEAD HOLE

MATERIAL	PROCESS/FINISH

SIZE	DRAWING NUMBER	SHEET
B	SS508859	1 OF 1

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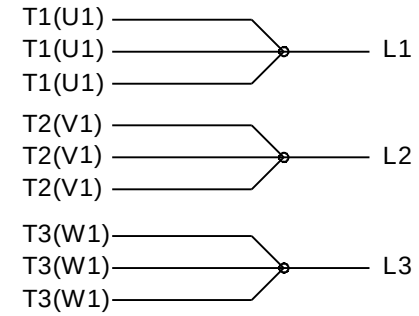
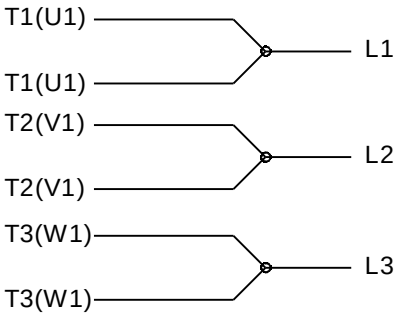
IF MOTOR HAS 9 LEADS

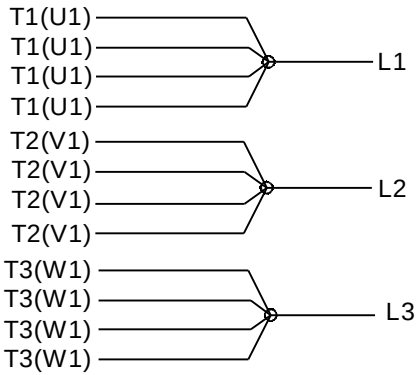


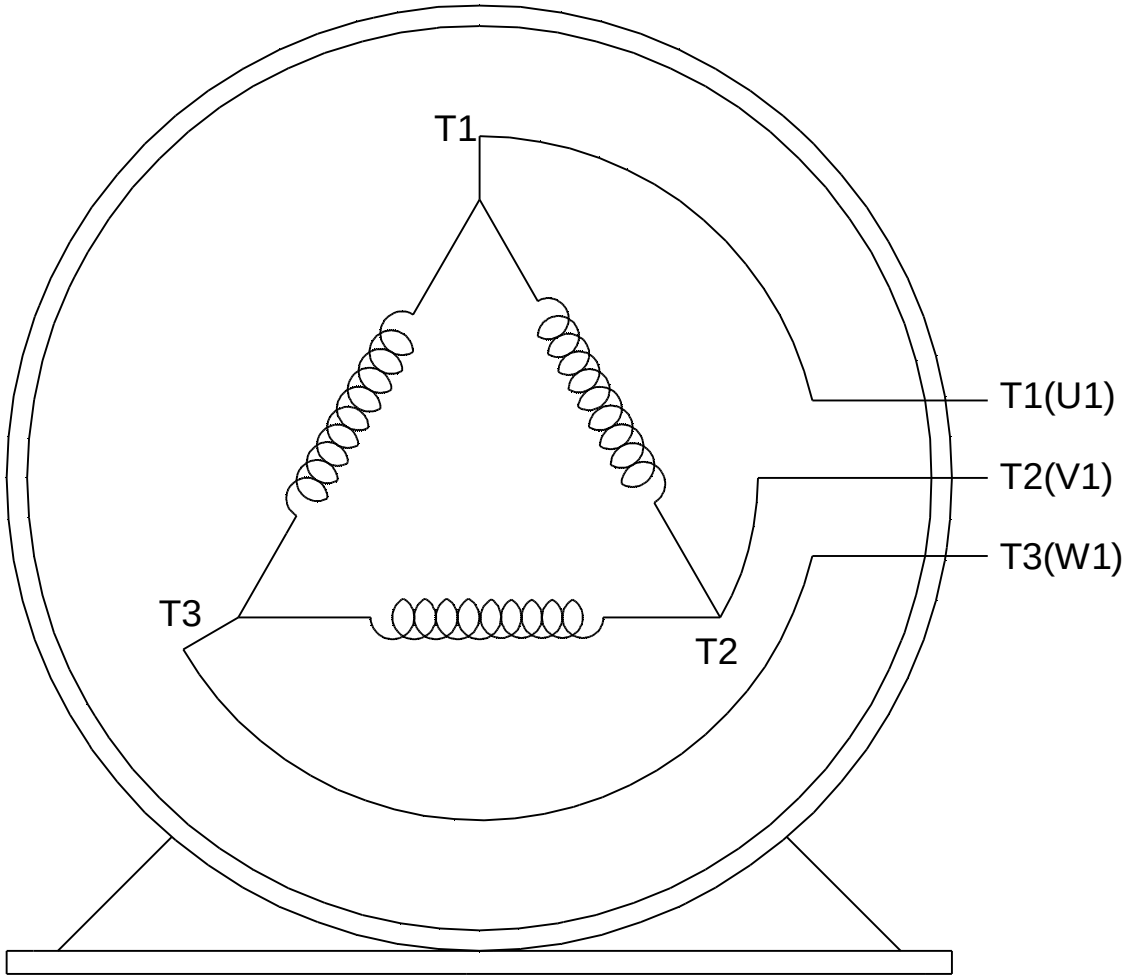
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: AJW	DATE: 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY: DRS	Regal Beloit America, Inc.
ECO: ECO-0077067	APPROVED BY: EWH	DATE: 05-05-2015	DEC. .X ±0.1 [±2.5] ±7' 30"	DATE: 09-27-1996	
ECO DESCRIPTION: UPDATED TO SOLIDWORKS			INCH .XX ±0.02 [±0.51]	APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL
			XXX ±0.005 [±0.127]	DATE: 09-30-1996	3Ø SINDLE VOLTAGE
			.XXXX ±0.0005 [±0.0127]	REFERENCE	MATERIAL / PROCESS/FINISH
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°	THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300U / SHEET: 1 OF 1
			CORNER FILLETS: R.02 [.51]		
			MACHINED SURFACES: 200 INCH / 5.1 mm		
			mm SHOWN IN [BRACKETS]		

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P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300U **CAT #:** 811660.00
OUTLINE: B-SS508859-1675
WINDING: T405671 R1 4

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1200	1185	405T	TEFC	TFS	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	89.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF	ELECT. TYPE
F.L. PF	83.0	3/4 LD PF	80.0	1/2 LD PF	70.5	93.6	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
332 LB-FT	542	700 LB-FT 211%	800 LB-FT 241%	60	

PRESSURE @ 3	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	42.0 LB-FT²	0 LB-FT²	25 SEC.	0	1450 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	DIVISION 2 T2B	NO	NONE	:N - LEESON WATTS

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6316	BALL 6313	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.059	0.036	0.299	0.433	7.881	0.080	ODE

* NOTES *

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE **PPR**

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE **HZ:**
UL: Y-(LEESON UL REC)

DATE: 1/29/2018

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Data Sheet

Date: 1/29/2018

811660.00

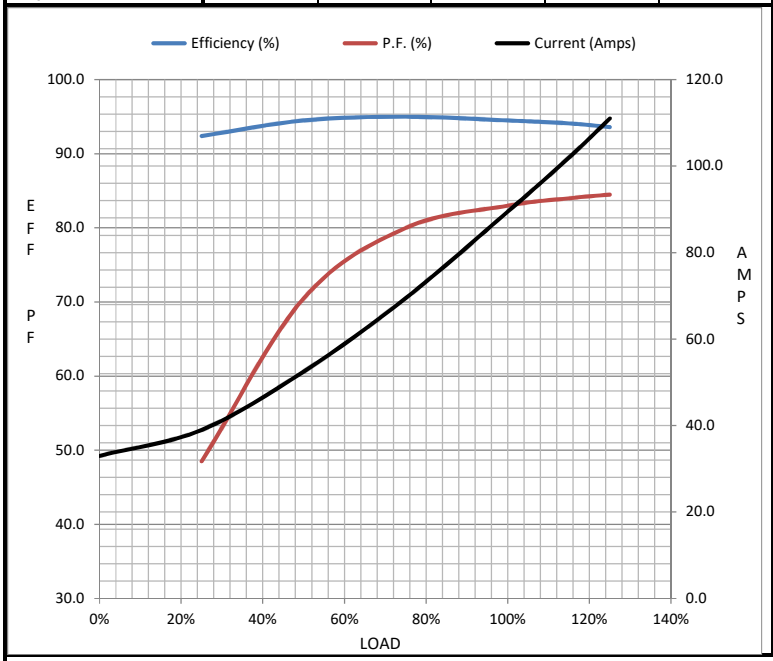
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	33.0	39.0	52.5	69.5	89.5	102	111	542	
Torque (ft-lb)	0.00	82.5	165	248	332	382	416	700	
RPM	1200	1195	1192	1190	1185	1,182	1180	0	
Efficiency (%)		92.4	94.5	95.0	94.5	94.1	93.6		
P.F. (%)	3.5	48.5	70.5	80.0	83.0	84.0	84.5	35.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1125	1185	1200
Current (Amps)	542	475	300	89.5	33.0
Torque (ft-lb)	700	625	800	332	0.00



Information Block

HP	75.0	
Sync. RPM	1200	
Frame	405	
Enclosure	TEFC	
Construction	TFS	
Voltage	460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	60	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	42.0	Lb-Ft²
Ref Wdg	T405671 R1	
Sound Pressure @ 1M	72	dBA
VFD Rating	CONSTANT 10:1	
Outline Dwg	B-SS508859-1675	
Conn. Diag	A-EE7300U	

Additional Specifications:

0

0

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0590	0.0360	0.2990	0.4330	7.8810