MIRUS International Inc.
31 Sun Pac Blvd., Brampton, Ontario, Canada L6S 5P6

TECHNICAL DATA **NCE™**
Neutral Current Eliminator

GENERAL SPECIFICATIONS:

VOLTAGE, PHASE, FREQUENCY
120/208V, 3-phase, 4-wire, 60Hz

OPERATING TEMPERATURE RISE
130°C [115°C] [80°C]

***INSULATION* CLASS**
220°C

SYSTEM CONNECTION
Parallel (shunt), 3-phase + neutral

ZERO SEQUENCE IMPEDANCE
Zo < 0.95%, Xo < 0.3%

EQUIV. EFFICIENCY AT FULL LOAD
> 97%

MAGNETISING INRUSH
< 10 times FL RMS

WINDING MATERIAL
Copper

INSULATING VARNISH IMPREGNATION
Polyester Resin

AUDIBLE SOUND LEVEL
As per NEMA ST-20 & CSA C9
Based on equivalent kVA

ENCLOSURE
Type: NEMA-3R, ventilated
Paint: Polyester powder coated
Colour: ANSI 61 Grey

NEUTRAL CURRENT AMMETER[1]
Flush mounted

OPTIONS:

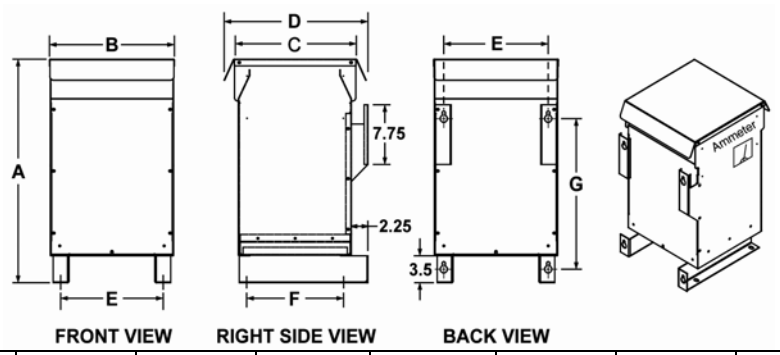
FIELD ADJUSTABLE IMPEDANCE (FAI)
Higher Zo can be selected in Field to lower neutral current removed by NCE™

OVER-TEMPERATURE SWITCH(ES)
[170°C] [200°C]

NCE OFF-LINE RELAY and/or ALARM
Monitors status of CB[5] feeding NCE™
AR1: Alarm relay only
ALM1: Alarm relay and flashing light

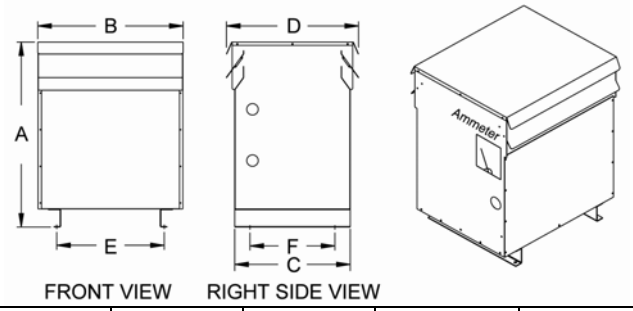
***SOLID BOTTOM PLATE* (Case 'MT' only)**
[yes], [no]

'MT1', 'MT2' ENCLOSURE DIM. - inches [mm]



CASE	A	B	C	D	E	F	G
MT1	29.00 [737]	16.75 [425]	15.00 [381]	19.00 [483]	13.75 [349]	13.00 [330]	19.50 [495]
MT2	38.00 [965]	21.50 [546]	19.50 [495]	23.50 [597]	17.00 [432]	17.50 [445]	25.00 [635]

'MT3' ENCLOSURE DIM. - inches [mm]



CASE STYLE	A	B	C	D	E	F
MT3	45.00 [1143]	26.00 [661]	21.00 [534]	25.00 [635]	21.50 [546]	19.00 [483]

Product Code:

NCE - hhh - I - STD

- **NCE** — Neutral Current Eliminator
- **hhh** — Neutral Current Ampacity in Amps: 60, 75, 100, 150, 175, 225, 250, 300, 350, 400, 500, 600
- **I** — System L-L Voltage: 208 (consult factory for other voltages)
- **STD** — Options: STD = Standard; FAI = Field Adjustable Impedance

Sizes					Losses[2]		Connections for 120/208V			
Neutral Current Amps	Phase Current Amps	Suggested Fuse or CB[6] (Not Included)	Case Style	Weight lb [kg][2]	Iron	Copper (full load)	Mechanical Lugs Provided		Suggested Conductor Sizes Copper (75°C) Raceway[6]	
							Phase	Neutral	Phase	Neutral
60	20	20A	MT1	165 [75]	115W	100W	#4-#14	1/0-#14	#10	#3
75	25	30A	MT1	180 [82]	130W	120W	#2-#14	2/0-#14	#8	#2
100	33	40A	MT1	225 [102]	135W	150W	#2-#14	250MCM-#6	#6	2/0
150	50	50A	MT1	250 [113]	160W	250W	#2-#14	250MCM-#6	#4	4/0
175	58	60A	MT2	270 [122]	180W	350W	1/0-#14	350MCM-#6	#3	350MCM
225	75	80A	MT2	350 [159]	190W	425W	1/0-#14	2x250MCM-#6	#2	2x2/0
250	83	90A	MT2	350 [159]	190W	525W	2/0-#14	2x250MCM-#6	#1	2x3/0
300	100	100A	MT2	375 [170]	200W	550W	250MCM-#6	2x250MCM-#6	1/0	2x4/0
350	117	125A	MT2	400 [181]	220W	600W	250MCM-#6	2x350MCM-#6	2/0	2x350MCM
400	133	150A	MT3	480 [218]	230W	700W	250MCM-#6	2x350MCM-#6	3/0	2x350MCM
500	168	200A	MT3	520 [236]	240W	800W	350MCM-#6	3x250MCM-#6	250MCM	3x250MCM
600	200	200A	MT3	560 [254]	260W	960W	600MCM-#2	3x350MCM-#6	350MCM	3x350MCM

1. Neutral Current Ammeter measures and displays amount of neutral current removed from the system by the NCE™.
2. Estimated Values.
3. For additional information refer to: Typical Specifications, Technical Guide, Internal Layout and Connection Diagrams.
4. Specifications are subject to change without notice.
5. Consult factory if fuse monitoring is required.
6. End user is responsible for ensuring that the NCE installation and wiring satisfies all applicable electrical and safety code requirements.

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