

Project Name: **small sunline**

Unit Model #: **KE060C00A2AAAAA1A1**

Quantity: **1**

System: **KE060C00A2AAAAA1A1**

Cooling Performance

Total gross capacity	62.1 MBH
Sensible gross capacity	45.2 MBH
Seasonal Efficiency (at ARI)	13.40 SEER2
Efficiency (at ARI)	EER
Efficiency (at ARI)	11.40 EER2
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Evap Coil Leaving DB temp.	59.4 °F
Evap Coil Leaving WB temp.	57.3 °F
Unit Leaving DB temp.	60.7 °F
Unit Leaving WB temp.	57.8 °F
Leaving air temp dew point	56.00 °F
Power input (w/o blower)	4.20 kW
Sound power	82 dB(a)

Refrigerant

Refrigerant type	R-454B
Sys1	5 lb 4 oz

Supply Air Blower Performance

Supply air	2029 cfm
Ext. static pressure	0.6 IWG
Addl. Unit Losses (Options/Accessories)	-0.2 IWG
Blower speed	992 rpm
Blower speed description	MED/Hi
Duct location	Bottom
Motor rating	1.00 HP
Actual required BHP	0.87 HP
Power input	0.81 kW
Elevation	0 ft
Drive type	DIRECT
Speed tap	4

Electrical Data

Power supply	208-3-60	230-3-60
Unit min circuit ampacity	30.4 A	30.4 A
Unit max over-current protection	40 A	40 A

Dimensions & Weight

Hgt 33 in	Len 83 in	Wth 45 in
Weight with factory installed options	637 lb	

Clearances

Right	24 in	Front	24 in	Rear	12 in
Top	72 in	Bottom	0 in	Left	24 in

Note: Please refer to the tech guide for listed maximum static pressures



Electrical Data shown is for Cooling Only. For MCA and MOCP with electric heat kits, please see last page.



Unit Features

- Refrigerant Detection System (RDS) is Factory Installed
- Single Stage Cooling
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 750 Hours Salt Spray Test (ASTM B-117 Standards)
- Either Supply and/or Return can be Field Converted from Vertical to Horizontal Configuration without Cutting Panels.
- Full Perimeter Base Rails with Built in Rigging Capabilities
- Scroll Compressor
- 1 HP Direct Drive Blower
- Unit Ships with 1" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 2 - (15" x 20" x 1" or 2") and 1 - (14" x 25" x 1" or 2"). Unit accepts 1" or 2" wide filters.
- Single Point Power Connection
- Through-the-Curb and Through-The-Base Utility Connections
- Short Circuit Current: 5kA RMS Symmetrical
- Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil
- Galvanized Steel Drain Pan
- Standard Access Doors

5 Ton

- York Units are Manufactured at an ISO 9001 Registered Facility and Each Rooftop is Completely Computer-Run Tested Prior to Shipment.

BAS Controller

- Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.

Standard Unit Controller: Smart Equipment Control Board

- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without additional components or intervention.
- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements

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Power supply	208-3-60
Unit min circuit ampacity	30.4 A
Unit max over-current protection	40 A
Min Voltage	187 V
Max Voltage	252 V
Comp #1 RLA	16.0
Comp #1 LRA	156.4
Indoor Mtr Voltage	208-1-60
Indoor Mtr FLA	7.6
Outdoor Mtr Qty	1
Outdoor Fan Voltage	208-1-60
OD Fan Mtr FLA (ea.)	2.8

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Factory Installed Options

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Equipment Options		Option(s) Selected
Product Category:	KE	Single Packaged R-454B Air Conditioner 11.4 EER2 / 13.4 SEER2
Nominal Cooling Capacity:	060	5 Ton Single Stage Cooling
Heat Type and Nominal Heat Capacity:	C00	
Blower Option:	A	1 HP Direct Drive Blower Direct Drive
Voltage:	2	208/230-3-60
Outside Air Option:	A	
Service Options:	A	
Sensor Options:	A	Refrigerant Detection System
Controls:	A	Smart Equipment Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors.
Refrigeration:	A	Microchannel All Aluminum Condenser Coil, Copper tube/Aluminum fin Evaporator Coil
Additional Options:	1	1" Throwaway Filters
Cabinet Options:	A	Galvanized Steel Drain Pan Standard Access Doors
Product Generation:	1	

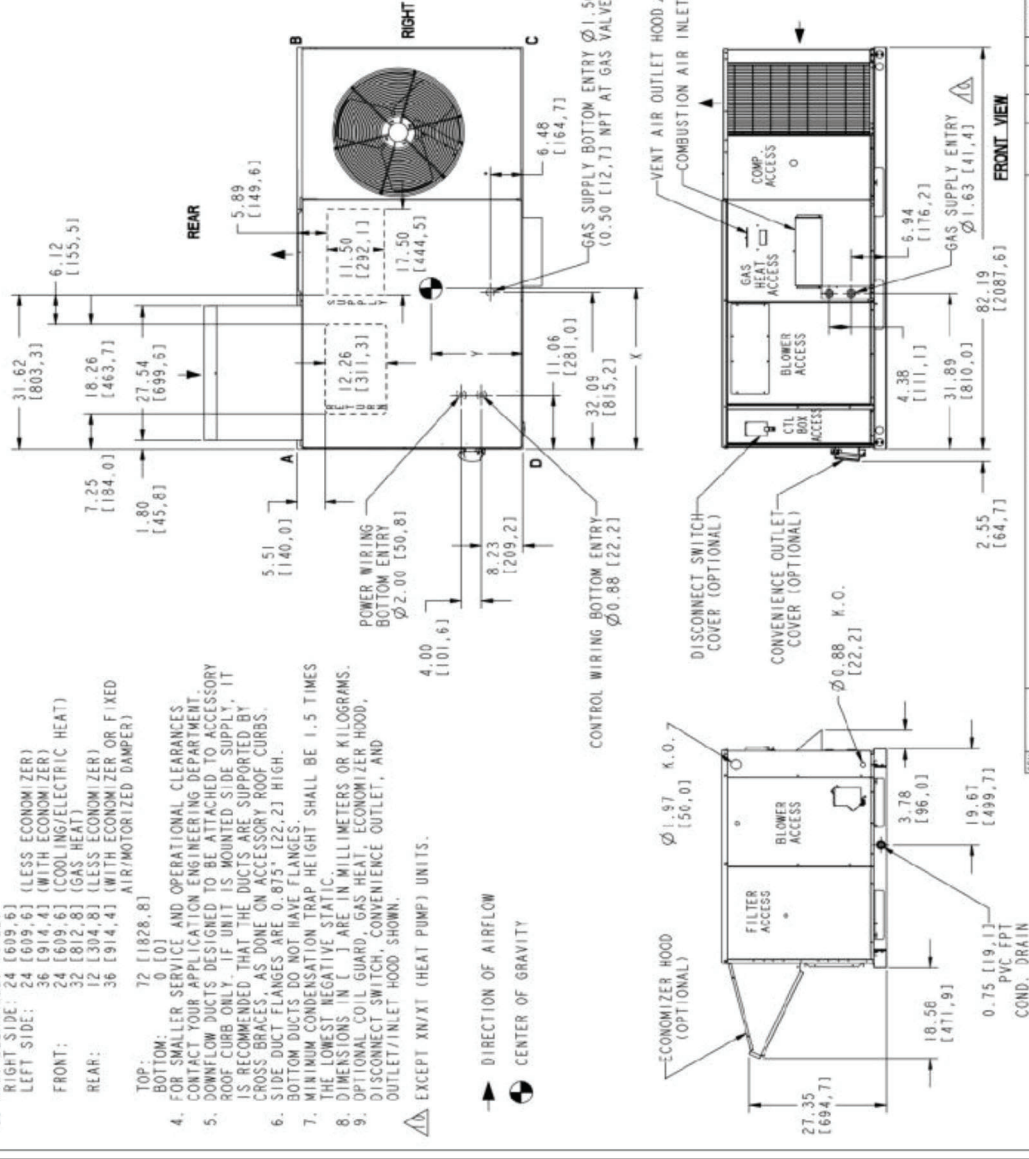


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NOTES:

1. FOR OUTDOOR USE ONLY
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
RIGHT SIDE: 54 [609.6]
LEFT SIDE: 54 [609.6] (LESS ECONOMIZER)
56 [612.4] (WITH ECONOMIZER)
FRONT: 54 [609.6] (COOLING/ELECTRIC HEAT)
56 [612.4] (GAS HEAT)
REAR: 12 [304.8] (LESS ECONOMIZER)
36 [914.4] (WITH ECONOMIZER OR FIXED AIR/MOTORIZED DAMPER)
TOP: 72 [1828.8]
BOTTOM: 0 [0]
4. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES, CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
5. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
6. SIDE DUCT FLANGES ARE 0.875" 122.21 HIGH.
7. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES BOTTOM DUCTS DO NOT HAVE FLANGES.
8. THE LOWEST NEGATIVE STATIC PRESSURE SHALL BE 0.1 IN. W.G.
9. DIMENSIONS IN " ARE IN MILLIMETERS OR KILOGRAMS. OPTIONAL COIL GUARD, GAS HEAT ECONOMIZER HOOD, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND OUTLET/INLET HOOD SHOWN.
△ EXCEPT NX/NX (HEAT PUMP) UNITS.



U N TONNAGE	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)			4 POINT CORNER LOADS (LBS) (BASE UNIT)			
		X	Y	Z	A	B	C	D
3	AC	470 (213)	34.5 (876.3)	8.25 (443.5)	111 (50)	80 (36)	117 (53)	162 (73)
4	AC	598 (271)	36 (914.4)	18.50 (469.9)	139 (63)	108 (49)	154 (70)	198 (90)
5	AC	632 (287)	37.5 (952.5)	18.2 (462.3)	139 (63)	117 (53)	171 (78)	204 (93)
6	AC	665 (302)	35.5 (901.7)	17.75 (445.8)	150 (68)	114 (52)	173 (78)	228 (103)
3	HP	610 (271)	38.3 (972.8)	18.75 (476.3)	136 (62)	118 (54)	145 (75)	190 (86)
4	HP	616 (279)	38.2 (970.3)	18.4 (467.4)	135 (61)	117 (53)	149 (77)	195 (88)
5	HP	620 (281)	38.6 (980.4)	18 (457.2)	132 (60)	117 (53)	171 (79)	197 (89)

REV	DATE	REVISION RECORD	EC NO	OR	CR	ENG	THIRD ANGLE PROJECTION	ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER HEREOF ARE RESERVED AND NO PERMISSION IS GRANTED TO REPRODUCE THIS PRINT IN WHOLE OR IN PART OR TO DISCLOSE ANY OF THE CONTENTS HEREOF TO ANY OTHER PERSON WITHOUT WRITTEN RELEASE BY JOHNSON CONTROLS	SAFETY AND REV. CHARACTERISTICS PER 10-200-231-21
A	12-21-10	NEW DRAWING	---	LO	ROH	---			▽
B	09-08-11	CHANGED OPERATING & CORNER WEIGHTS FOR 3, 4 & 5T (EN 23)	19176	LO	RCF	KMC			
C	11-25-14	ADDED 2Z/2D ANV/AT MODELS	30403	LO	ROH	KMC			
D	07-30-18	ADDED 2Z/2D & TON MODEL & REMOVED OBSOLETE DATA	60489	SMD	LOP	CB			
ONE PLACE DECIMAL = ± .1 TWO PLACE DECIMAL = ± .01 THREE PLACE DECIMAL = ± .001 ALL DIMENSIONS ARE IN INCHES DO NOT SCALE PRINT							EXAMINER PER AIAE 114-5-2009 REFERENCE UNLESS OTHERWISE SPECIFIED	SUBMITTAL DWG. SW JUMBLINE, 3-6 TONS SIZE DWG NO.	TYPE: NOT APPLICABLE ENG SPEC: NOT APPLICABLE
JOHNSON CONTROLS UNITARY PRODUCTS GROUP NORMAN, OK 73069									REV UST-SSL-100F32H D

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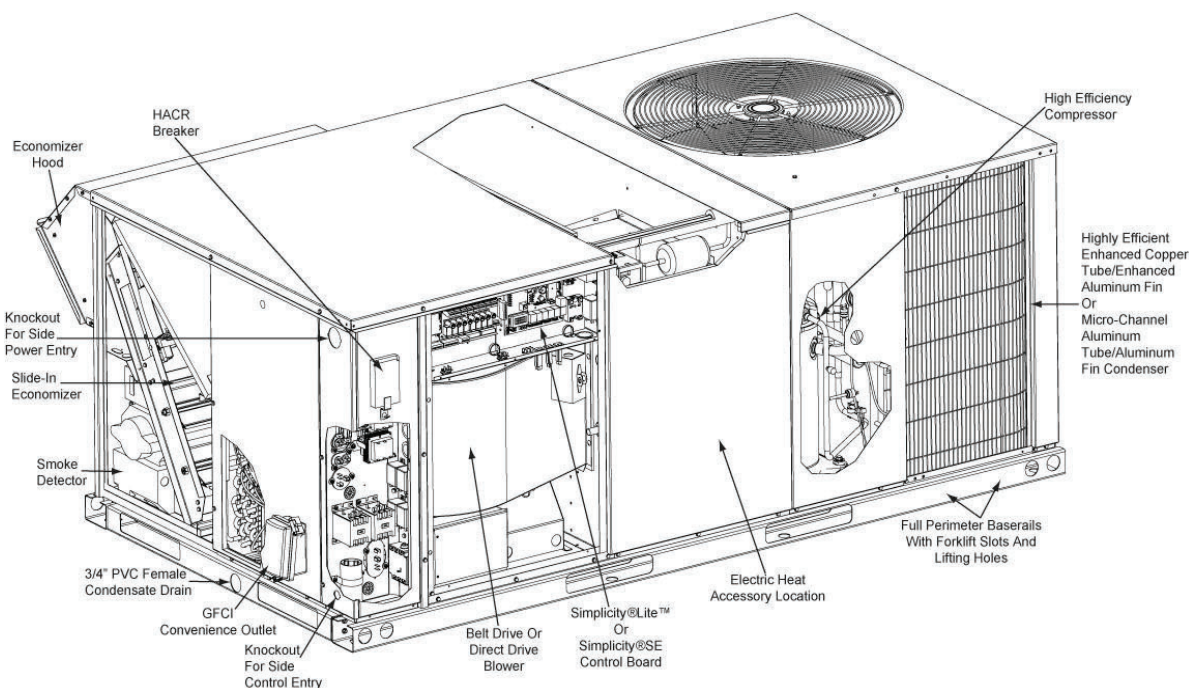
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Component Location

Component Location

Electric/Electric and Heat Pump

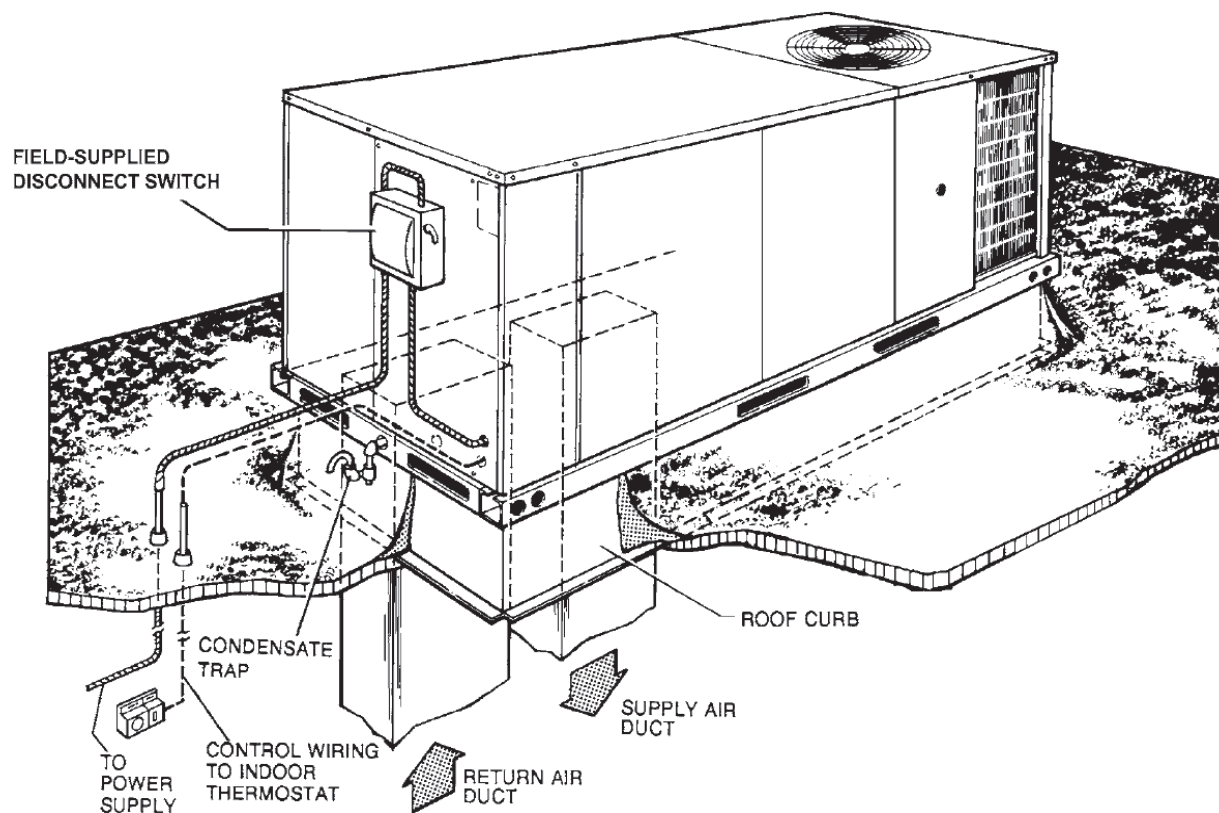
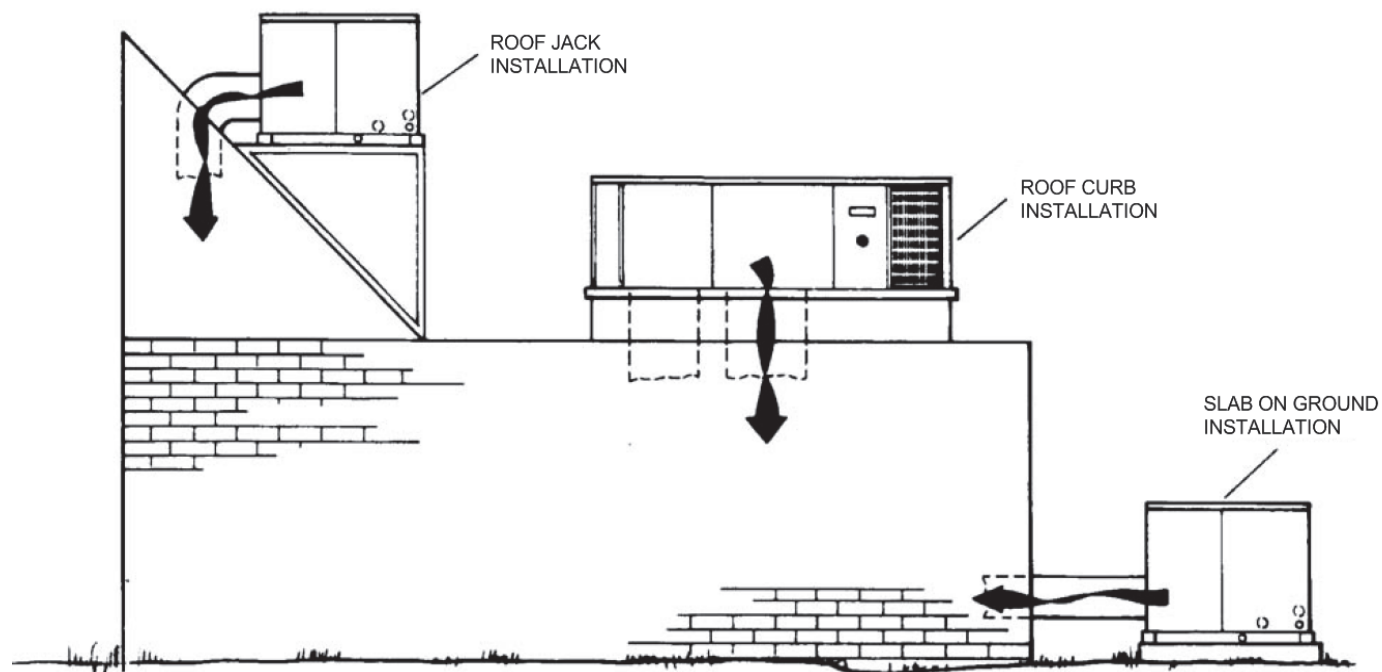


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Typical Application



5 Ton 208/230 with Direct Drive

Confirm if specific voltage at jobsite is 208 or 230

Below is Three Phase

KE036-060 (direct drive) without powered convenience outlet (continued)

Size (ton)	Volt	Compressors (each)			OD fan motors (each)	Supply blower motor	Pwr conv outlet	Electric heat accessory				MCA ¹ (A)	Max fuse ² breaker size ³ (A)
		RLA	LRA	MCC				Model	KW	Stages	Amps		
060 (5)	208-1-60	23.7	157	37	2.8	7.6		None	-	-	-	40	60
								E05	4	1	19.2	40	60
								E07	5.6	1	26.9	43.1	60
								E10	8	1	38.5	57.6	60
								E15	11.9	1	57.2	81	90
								E20	15.9	2	76.4	105	110
								E30	22.2	2	106.7	142.9	150
	230-1-60	23.7	157	37	2.8	7.6		None	-	-	-	40	60
								E05	5.3	1	22.1	40	60
								E07	7.5	1	31.3	48.6	60
								E10	10.6	1	44.2	64.8	70
								E15	15.9	1	66.3	92.4	100
								E20	21.2	2	88.3	119.9	125
								E30	29.6	2	123.3	163.6	175
	208-3-60	16	156.4	25	2.8	7.6		None	-	-	-	30.4	40
								E05	4	1	11.1	30.4	40
								E07	5.6	1	15.5	30.4	40
								E10	8	1	22.2	37.3	45
								E15	11.9	1	33	50.8	60
								E20	15.9	2	44.1	64.6	70
								E30	22.2	2	61.6	86.5	90
	230-3-60	16	156.4	25	2.8	7.6		None	-	-	-	30.4	40
								E05	5.3	1	12.7	30.4	40
								E07	7.5	1	18	32	45
								E10	10.6	1	25.5	41.4	45
								E15	15.9	1	38.2	57.3	60
								E20	21.2	2	51	73.3	80
								E30	29.6	2	71.2	98.5	100

1. Minimum Circuit Ampacity.
2. Dual element, time delay type.
3. HACR type per NEC.