

KEYED NOTES

- VERIFY WITH SERVICE PLANNER FOR AIC RATING AND ELECTRICAL INFORMATION BEFORE ISSUING ANY BID. NOTIFY ENGINEER IMMEDIATELY IF MAJOR DISCREPANCIES OCCURS.
- ALL SERVICES SUPPLYING DWELLING UNITS SHALL BE PROVIDED WITH A SURGE-PROTECTIVE DEVICE (SPD) IN ACCORDANCE WITH NEC 230.67. PROVIDE SIEMENS BOLT SHIELD SPD OR EQUAL FOR ALL TENANT LOAD CENTERS
- ROUTE FEEDER THROUGH JUNCTION BOX WITH THE ABILITY TO CONNECT TO ESS SYSTEM IN THE FUTURE. LABEL THE JUNCTION BOX "FUTURE ESS CONNECTION".
- STUB UP CONDUIT FOR PV SYSTEM. PV SYSTEM SHALL BE SUBMITTED UNDER A SEPARATE PERMIT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PV CONSULTANT FOR THE EXACT SIZE OF CONDUIT AND ALL ELECTRICAL REQUIREMENTS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO SIZE THE BUS BAR OF PANEL PER NEC 705.12(D)(2)(3)(C).
- THE ELECTRICAL CONTRACTOR SHOULD COORDINATE WITH THE SOLAR TEAM FOR ALL ELECTRICAL EQUIPMENTS.
- PROVIDE E-MON/D-MON 3RD PARTY METER SYSTEM OR EQUAL.

GENERAL NOTES

- THE MAXIMUM AVAILABLE FAULT CURRENT IS BASED ON WORST CASE FAULT CURRENT PUBLISHED BY THE UTILITY COMPANY. CONTRACTOR TO OBTAIN FAULT CURRENT LETTER FROM UTILITY COMPANY FOR EACH SERVICE BEFORE ORDERING SWITCHBOARD. IF AVAILABLE FAULT CURRENT IS HIGHER THAN SHOWN IN THE DRAWINGS, CONTACT ELECTRICAL ENGINEER IMMEDIATELY.
- LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY THE CITY, WHERE THE PROJECT IS LOCATED, RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- ALL NEW CIRCUIT BREAKERS, FUSIBLE SWITCHES AND ELECTRICAL EQUIPMENT SHALL BE FULLY RATED HAVING A SHORT-CIRCUIT (AIC) RATING EXCEEDING THE AVAILABLE SHORT-CIRCUIT CURRENT AT THE EQUIPMENT. SERIES RATING OF EQUIPMENT IS NOT ALLOWED.
- ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
 - TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
 - LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
 - PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56, 692.56, 700.7, 701.7, 702.7, AND 705.10 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
 - SINGLE LINE DIAGRAM SHOWN IS A "FULLY RATED SYSTEM" UNLESS NOTED. OTHERWISE.
 - THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
 - ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE "UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION".

Product data sheet

Specifications



All in one, Homeline, CSED, ringed socket, 200A, semi flush mount, 30 spaces, 42 circuits, 22kA SCCR, no bypass, solar ready

SC3042M200PF

Product availability: Stock - Normally stocked in distribution facility

Price*: 2,064.00 USD

Main

Product Or Component Type	All-In-One
Range Of Product	Homeline
Meter Socket Type	Ringed
Hub Type	A-L

Complementary

Line Rated Current	200 A
Number Of Phases	1 phase
Short-Circuit Current	22 kA
Mounting	Semi flush (outdoor)
Number Of Spaces	30
Number Of Circuits	42
Number Of Tandem Breakers	12
Electrical Connection	Lugs, line side Lugs, service ground
Wire Size	AWG 12, AWG 2/0 (aluminum) service ground AWG 4, 250 kcmil (aluminum/copper) line side AWG 14, AWG 2/0 (copper) service ground
Tightening Torque	Main lugs 250 lb.in, AWG 4, 250 kcmil, aluminum/copper Service ground 50 lb.in, AWG 14, AWG 2/0, copper Service ground 50 lb.in, AWG 12, AWG 2/0, aluminum Branch lugs 50 lb.in, AWG 14, AWG 4, copper Branch lugs 50 lb.in, AWG 12, AWG 2, aluminum Branch lugs 35 lb.in, AWG 6, AWG 4, aluminum/copper Branch lugs 25 lb.in, AWG 8, aluminum/copper Branch lugs 20 lb.in, AWG 14, AWG 10, aluminum/copper Branch lugs 20 lb.in, AWG 12, AWG 10, aluminum/copper Cover 10 lb.in
Disconnect	Service disconnect (factory installed)
Disconnect Rating	200 A
Branch Breaker Rating	200 A
Service Feed Location	LUG OH outdoor
Bypass Type	No bypass

* OR APPROVED EQUAL

Price in "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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Sustainability



Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACH

Well-being performance

Mercury Free

RoHS Exemption Information

Yes

Certifications & Standards

Reach Regulation REACH Declaration

Eu RoHS Directive Compliant with Exemptions

China RoHS Regulation China RoHS declaration

Product out of China RoHS scope. Substance declaration for your information.

Environmental Disclosure Product Environmental Profile

Circularity Profile No need of specific recycling operations

California Proposition 65

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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Connections - Terminals	Plug on neutral
Product Compatibility	Solar ready
Width	16.80 in (426.72 mm)
Depth	7.20 in (182.88 mm)
Height	44.37 in (1127.00 mm)
Bus Rating	225.0 A

Ordering and shipping details

Category	US1DE3A00148
Discount Schedule	DE3A
Gtin	785901956846
Returnability	Yes
Country Of Origin	MX

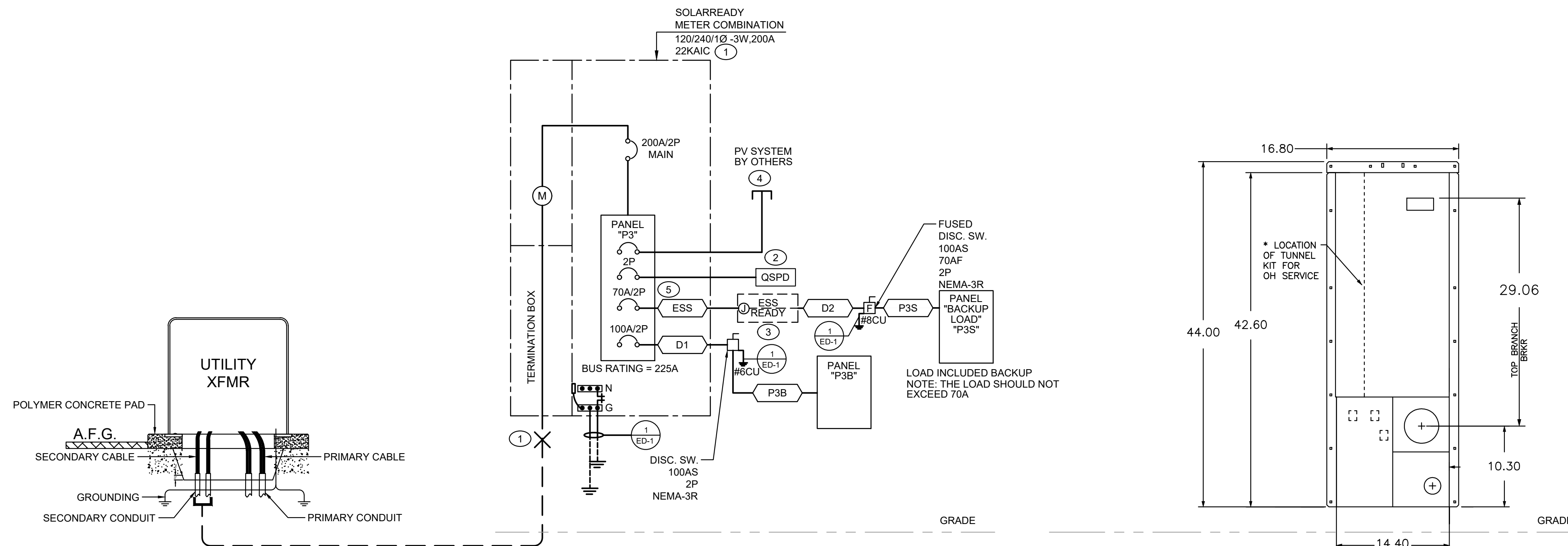
Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.19 in (18.26 cm)
Package 1 Width	17.19 in (43.66 cm)
Package 1 Length	44.31 in (112.55 cm)
Package 1 Weight	59.70 lb(US) (27.079 kg)
Unit Type Of Package 2	PAL
Number Of Units In Package 2	10
Package 2 Height	40.0000000000 in (101.6 cm)
Package 2 Width	44.00 in (111.76 cm)
Package 2 Length	48.0000000000 in (121.92 cm)
Package 2 Weight	670.60 lb(US) (304.16 kg)

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A TYPICAL FOR PLAN 3
SCALE: NONE

B ELECTRICAL EQUIPMENT ELEVATIONS
SCALE: NONE

Voltage Drop and Short Circuit Calculation																			
CABLE NAME	PANEL NAME	UNIT/ CIRCUIT	VOLTS	PHASE	FEEDER				CONDUIT				FAULT CURRENT						
					DEMAND AMPS	AMPS	PARALLEL RUNS	PHASE CONDUCTOR	EQUIPMENT GROUNDING CONDUCTOR	CONDUCTOR MATERIAL	CONDUCTOR INSULATION	CONDUIT TYPE	CONDUIT SIZE	FILL% (<40%)	DISTANCE (FT) L'	%VD	FAULT CURRENT	Isc	AIC
ESS	ESS	PLAN 3	240	1	70	70	1	2	6	ALUM	THHN	SER	NaN	-	10	0.19	22000	14728	22000
D2	D2	PLAN 3	240	1	70	70	1	2	6	ALUM	THHN	PVC	1 1/4	27.40%	35	0.65	14728	6845	10000
P3S	P3S	PLAN 3	240	1	70	70	1	2	6	ALUM	THHN	SER	NaN	-	35	0.65	6845	4451	10000
D1	D1	PLAN 3	240	1	100	100	1	1	4	ALUM	THHN	PVC	1 1/4	37.92%	35	0.73	22000	9276	10000
P3B	P3B	PLAN 3	240	1	100	100	1	1	4	ALUM	THHN	SER	NaN	-	35	0.73	9276	5862	10000

NOTE: THE VOLTAGE DROP IN THE ABOVE TABLE IS AN ESTIMATED LENGTH. THE CONTRACTOR SHALL REVISE THE FEEDER SCHEDULE BASED ON THE ACTUAL LENGTH IN THE FIELD, AND INCREASE OR DECREASE THE FEEDER SIZE TO ACCOMMODATE THE VOLTAGE DROP. ELECTRICAL CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD IN EVENT FIELD CONDITIONS THAT CAUSE A SUBSTANTIAL INCREASE IN OVERALL FEEDER LENGTH. THE FEEDER SHALL BE SIZED TO PREVENT VOLTAGE DROP FROM EXCEEDING 3%, AND TOTAL VOLTAGE DROP FOR BRANCH CIRCUIT AND FEEDER SHALL NOT EXCEED 5% PER NEC 210.19, 215.2.

SINGLE LINE DIAGRAM

PROJECT:
1957 PRUNERIDGE AVENUE

PROJECT NUMBER:
66603
ENGINEER:

SHEET NUMBER:
EN-0.5

ISSUED DATE: XXXXXX