F-PRO Feeder Protection Relay
Ordering Template

In order to specify and order an ERLPhase F-PRO relay properly configured for the application, a part number must be constructed as indicated below:

F-PRO   aaa   b   c   d

aaa - Model:

- **216:** (50, 51, 50N, 51N, 50G, 51G, 64/50SEF, 64/51SEF, 46/50, 46/51, 49, 50BF,46BC, 79 81HBL2, I²t-CB) - **5CT**

- **235:** (27/59DT, 27/59IT, 50/67, 51/67, 50N/67N, 51N/67N, 27/59DT, 27/59IT, 46/50, 46/51, 49, 50BF, 46BC, 79, 60CTS, 60VTS, 81HBL2, I²t-CB) - **3CT + 3VT**

- **297:** (27/59DT, 27/59IT, 24DT, 24IT, 47DT, 47IT, 59NDT, 59NIT, 37, 50/67, 51/67, 50N/67N, 51N/67N, 50G/67G, 51G/67G, 46/50, 46/51, 64/50/67SEF, 64/51/67SEF, 49, CBF, 46BC, 81HBL2, 81U/O, 81R, 32, 60VTS, 60CTS, I²t-CB, THD, 79) - **3VT + 5CT**

- **298:** (27/59DT, 27/59IT, 24DT, 24IT, 47DT, 47IT, 59NDT, 59NIT, 37, 50/67, 51/67, 50N/67N, 51N/67N, 46/50, 46/51, 64/50/67SEF, 64/51/67SEF, 49, CBF, 46BC, 81HBL2, 81U/O, 81R, 32, 60VTS, 60CTS, I²t-CB, THD, 25/27/59, 79) - **4VT + 4CT**

b – Auxiliary Supply & External Input Rating:

- **1**: Auxiliary supply - 20 to 60 V_{dc} External input - 24 V_{dc}
- **2**: Auxiliary supply - 20 to 60 V_{dc} External input - 48 V_{dc}
- **3**: Auxiliary supply - 80 to 300 V_{dc} / 80 to 250 V_{ac} External input - 110 V_{dc}
- **4**: Auxiliary supply - 80 to 300 V_{dc} / 80 to 250 V_{ac} External input - 220 V_{dc}

c – Enclosure, Number of Inputs, Outputs & LEDs:

- **A**: E6 case, 4 external inputs, 8 relay outputs and 8 LED's **
- **B**: E8 case, 14 external inputs, 14 relay outputs and 14 LED's *

d – Communication Ports:

- **1:** Redundant Ethernet port (100BASE-T, RJ45, PRP)*
- **2:** Redundant Ethernet port (100BASE-FX, ST, PRP) *
- **3:** One Ethernet port (100BASE-T, RJ45)
- **4:** One Ethernet port (100BASE-FX, ST)*

Example:

Ordering Code Example	F-PRO	216	3	A	3
Model - 50, 51, 50N, 51N, 50G, 51G, 64/50SEF, 64/51SEF, 46/50, 46/51, 49, 50BF, 46BC, 79, 81HBL2, I²t-CB					
Auxiliary supply - 80 to 300 V_{dc} / 80 to 250 V_{ac} **external input** - 110 V_{dc}					
Enclosure - E6 case, **number of inputs, outputs and LEDs** - 4 external inputs, 8 relay outputs, 8 LEDs					
Communication Ports - One Ethernet Port (100BASE-T,RJ45)					

Standard Functions and Features:

- 1A (or) 5A CT secondary input is site selectable
- Disturbance recorder, fault recorder, metering, ProLogic, trip circuit supervision
- Front USB port, rear serial RS485 port and horizontal flush panel mounting chassis
- Modbus (or) IEC103 (or) DNP3.0 are supported over RS485 port and DNP3.0 and IEC 61850 (or) PRP are supported over Ethernet
- IRIG-B (or) SNTP for time sync

* Applicable only for F-PRO 297 and F-PRO 298 models   ** Applicable only for F-PRO 216 and F-PRO 235 models