TYPICAL COMPLIANCE WITH LOAD CENTER REQUIREMENTS
#13 AND #14 USING A MAIN MOLDED CASE CIRCUIT BREAKER
WITH UVR AND OUTPUT MOLDED CASE CIRCUIT BREAKERS WITH
SHUNT TRIP UNITS

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TYPICAL CONTROL CIRCUIT FOR SECTION LOAD CENTER

LOAD CENTER TRANSFORMER

MAIN SECONDARY CIRCUIT BREAKER
WITH: SHORT CIRCUIT
OVERLOAD
POTENTIAL GROUND FAULT
CURRENT GROUND FAULT
UNDERVOLTAGE RELEASE

OUTPUT FEEDER
CIRCUIT BREAKERS
WITH: SHORT CIRCUIT

M1

OUTPUT FEEDER CONTACTORS
WITH: OVERLOAD
GROUND FAULT
GROUND WIRE MONITOR
UNDERVOLTAGE

CONTROL CIRCUIT TRANSFORMER

OFF
ON
OL
GF
GWM
UV
M1

NOTE: THE UNDERVOLTAGE PROTECTION MAY BE PROVIDED BY THE GROUND WIRE MONITOR OR THE CONTACTOR

TYPICAL COMPLIANCE WITH LOAD CENTER REQUIREMENTS #13 AND #14 USING A MOLDED CASE CIRCUIT BREAKER AND A CONTACTOR FOR EACH OUTPUT

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Typical control circuit for conveyor belt load center

Load Center Transformer

Main Secondary Circuit Breaker with: Short Circuit Overload Potential Ground Fault Current Ground Fault

Output Feeder Circuit Breakers with: Short Circuit

Output Feeder Contactors with: Overload Ground Fault Ground Wire Monitor Undervoltage

Notes:
1. The undervoltage protection may be provided by the ground wire monitor or the contactor
2. The main secondary circuit breaker has a shunt trip coil that is powered from a fail safe trip unit

Typical compliance with load center requirements #13 and #14 using a molded case circuit breaker and a contactor for each output

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TYPICAL CONTROL CIRCUIT FOR SECTION LOAD CENTER

LOAD CENTER TRANSFORMER

MAIN SECONDARY CONTACOR
WITH: SHORT CIRCUIT
OVERLOAD
POTENTIAL GROUND FAULT
CURRENT GROUND FAULT
UNDEVROLTAGE

OUTPUT FEEDER CONTACTORS
WITH: SHORT CIRCUIT
OVERLOAD
GROUND FAULT
GROUND WIRE MONITOR
UNDEVROLTAGE

NOTE: EACH CONTACOR MUST HAVE AN INTERRUPTING RATING IN EXCESS OF THE POWER SYSTEM SHORT CIRCUIT CAPACITY

NOTE: THE UNDEVROLTAGE PROTECTION MAY BE PROVIDED BY THE GROUND WIRE MONITOR OR THE CONTACOR

TYPICAL COMPLIANCE WITH LOAD CENTER REQUIREMENTS #13 AND #14 USING A MAIN SECONDARY CONTACOR AND A CONTACOR FOR EACH OUTPUT

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LOAD CENTER TRANSFORMER

MAIN SECONDARY CONTACTOR WITH: SHORT CIRCUIT
OVERLOAD
POTENTIAL GROUND FAULT
CURRENT GROUND FAULT
REMOTE CONTROL

OUTPUT FEEDER CONTACTORS WITH: SHORT CIRCUIT
OVERLOAD
GROUND FAULT
GROUND WIRE MONITOR
UNDervoltage

NOTE: EACH CONTACTOR MUST HAVE AN INTERRUPTING RATING IN EXCESS OF THE POWER SYSTEM SHORT CIRCUIT CAPACITY

NOTE: THE UNDervoltage PROTECTION MAY BE PROVIDED BY THE GROUND WIRE MONITOR OR THE CONTACTOR

TYPICAL COMPLIANCE WITH LOAD CENTER REQUIREMENTS #13 AND #14 USING A MAIN SECONDARY CONTACTOR AND A CONTACTOR FOR EACH OUTPUT

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