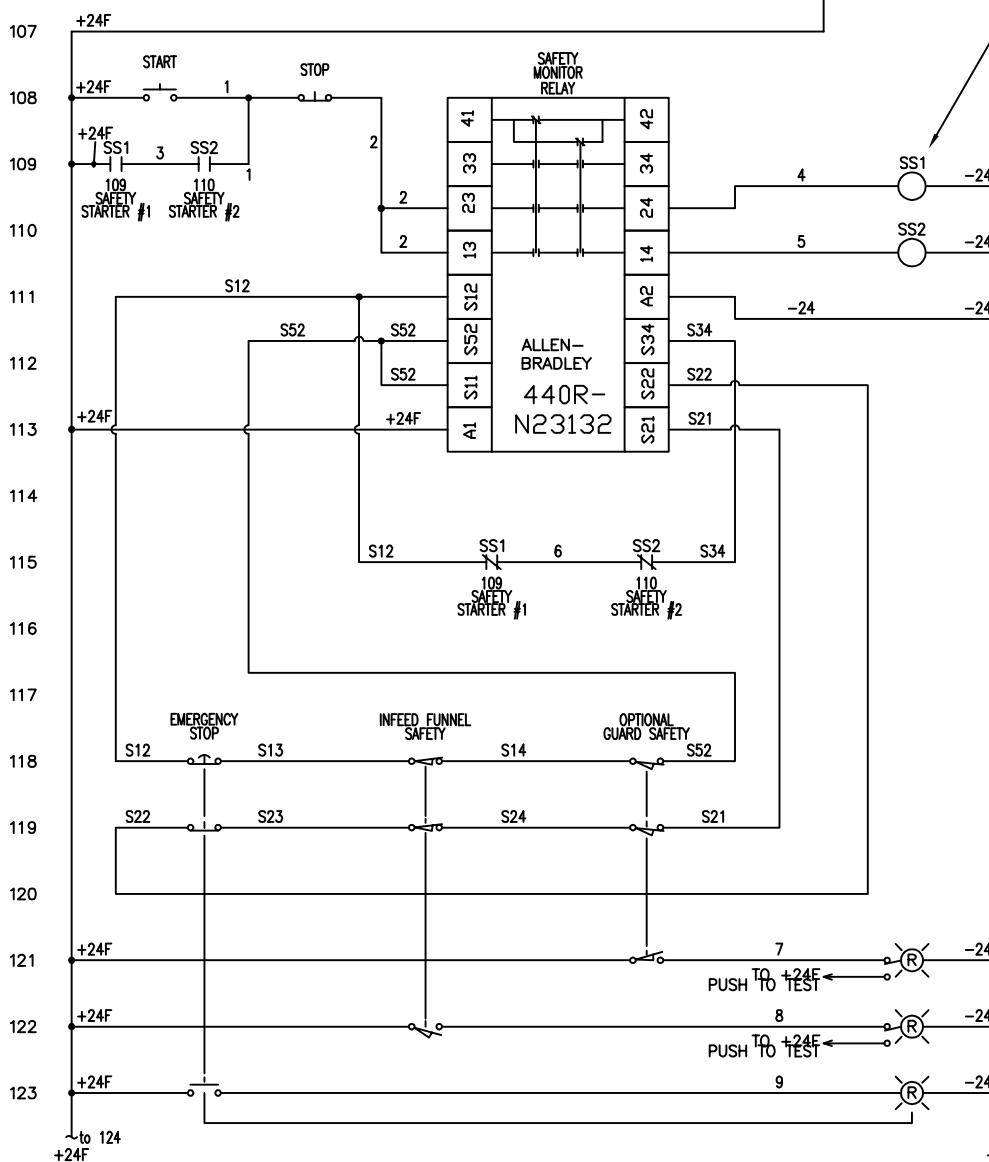


NOTE THAT THE SAFETY STARTERS I RECOMMEND ARE ALLEN-BRADLEY 100S CONTACTORS.



SAFETY STARTER #1  
NO 100, 101, 102, 109, 124  
NC 115

SAFETY STARTER #2  
NO 100, 101, 102, 109, 124  
NC 115

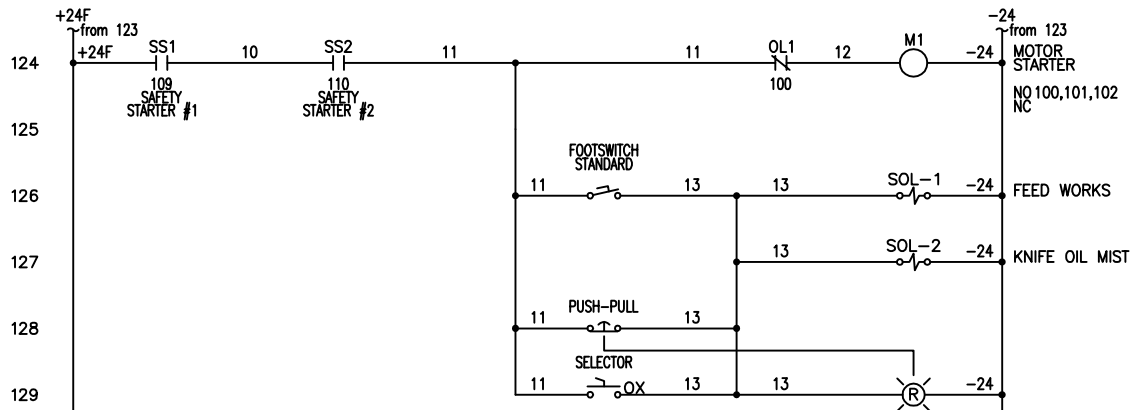
PAINT COLOR: \_\_\_\_\_

This drawing, including the concepts of design is the property of and is submitted by BE Equipment, Inc with the agreement that it is not to be reproduced, copied loaned, or used in any manner that may be a detriment to BE Equipment, Inc. Acceptance of this drawing will be construed as an agreement to the above

NO.	DATE	REVISION	BY

**BE EQUIPMENT, INC.**  
RECYCLING EQUIPMENT SALES and SERVICE  
QUAKERTOWN, PA

DRAWN BY	CHECKED BY	DWG. NO.
DATE	SCALE	SHEET NO. _____ OF _____



124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146

- (1) Make sure electrical enclosure is NEMA 12 or better.
  - (2) SCCR (Short Circuit Current Rating of the panel needs to be at least 65kA.
  - (3) Try to use components that have finger-safe terminals. Any devices that are not finger-safe must be covered with a lexan cover to prevent accidental contact.
  - (4) The control circuit must be 24VDC.
  - (5) The system must be designed to Safety Category 3.
  - (6) Use black stranded wire for high voltage wiring.
  - (7) Use blue stranded wire for all 24VDC wires with a positive polarity.
  - (8) Use gray stranded wire for all 24VDC wires with a negative polarity.
  - (9) Every wire must have a wire number on it and that number must match the electrical schematic.
  - (10) All grounding terminals or bars must be mounted to a bare metal surface, grind the paint off the panel in the spot the terminal will be mounted.
  - (11) Make sure all panel doors or covers are also grounded.
  - (12) Do not use wire nuts or splices of any kind. All connections in junction boxes must be landed on terminal points.
  - (13) All devices used must be UL Listed.
  - (14) All indicating lights must be of the LED variety.
  - (15) Indicating Lights must be Push to Test or must have a Master Push to Test Button that will test all the Lights at Once.
  - (16) Do not run wires with different voltage levels in the same conduit.
  - (17) All Emergency Stop Pushbuttons must be of the Maintained variety (Push-Pull or Twist - to - release). They must have a pilot light to indicate when they are pressed. They must also have a legend plate with a yellow background and black letters.
  - (18) Flexible conduit and cables may not be longer than 3 feet in length without a good reason, and then it should be approved by P&G beforehand.
  - (19) I recommend that all electrical schematics and panel layout drawings be supplied to P&G for approval prior to build.
  - (20) The main control panel must have a manufacturers nameplate on it that at a minimum has the following information:
    - OEM Name
    - Machine Process/Skid Name
    - Skid Serial Number
    - Rated Voltage
    - Number of Phases
    - Frequency
    - Full Load Current for Each Supply
    - Amperage Rating of the Largest Motor or Load
    - Maximum Amperage Rating of Short Circuit and Ground Fault Protective Device
    - Electrical Diagram Numbers, or the Number of the Index to the Electrical Drawings for the Machine.
    - The enclosure Type Number
- (18) Verify Panels and Equipment have the OSHA Accident Prevention Labeling Required by 1910.145.

PAINT COLOR: \_\_\_\_\_

NO.	DATE	REVISION	BY	BE EQUIPMENT, INC. RECYCLING EQUIPMENT SALES and SERVICE QUAKERTOWN, PA		
				DRAWN BY	CHECKED BY	DWG. NO.
				DATE	SCALE	SHEET NO. ___ OF ___

This drawing, including the concepts of design is the property of and is submitted by BE Equipment, Inc with the agreement that it is not to be reproduced, copied loaned, or used in any manner that may be a detriment to BE Equipment, Inc. Acceptance of this drawing will be construed as an agreement to the above

