

Wiring Diagrams

DETROIT DIESEL



Automatic Transfer Switches

Models:

SCS/SCP and SSS/SSP

Controls:

DXPower™ 1500



Product Identification Information

Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

Transfer Switch Identification Numbers

Record the product identification numbers from the transfer switch nameplate.

Model Designation _____

Serial Number _____

[illegible]

This manual provides wiring diagrams for the automatic transfer switch models listed on the front cover.

Information in this publication represents data available at the time of print. The manufacturer of DDC/MTU Power Generation products reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

Service Assistance

For professional advice on generator set power requirements and conscientious service, please contact your nearest DDC/MTU Power Generation distributor.

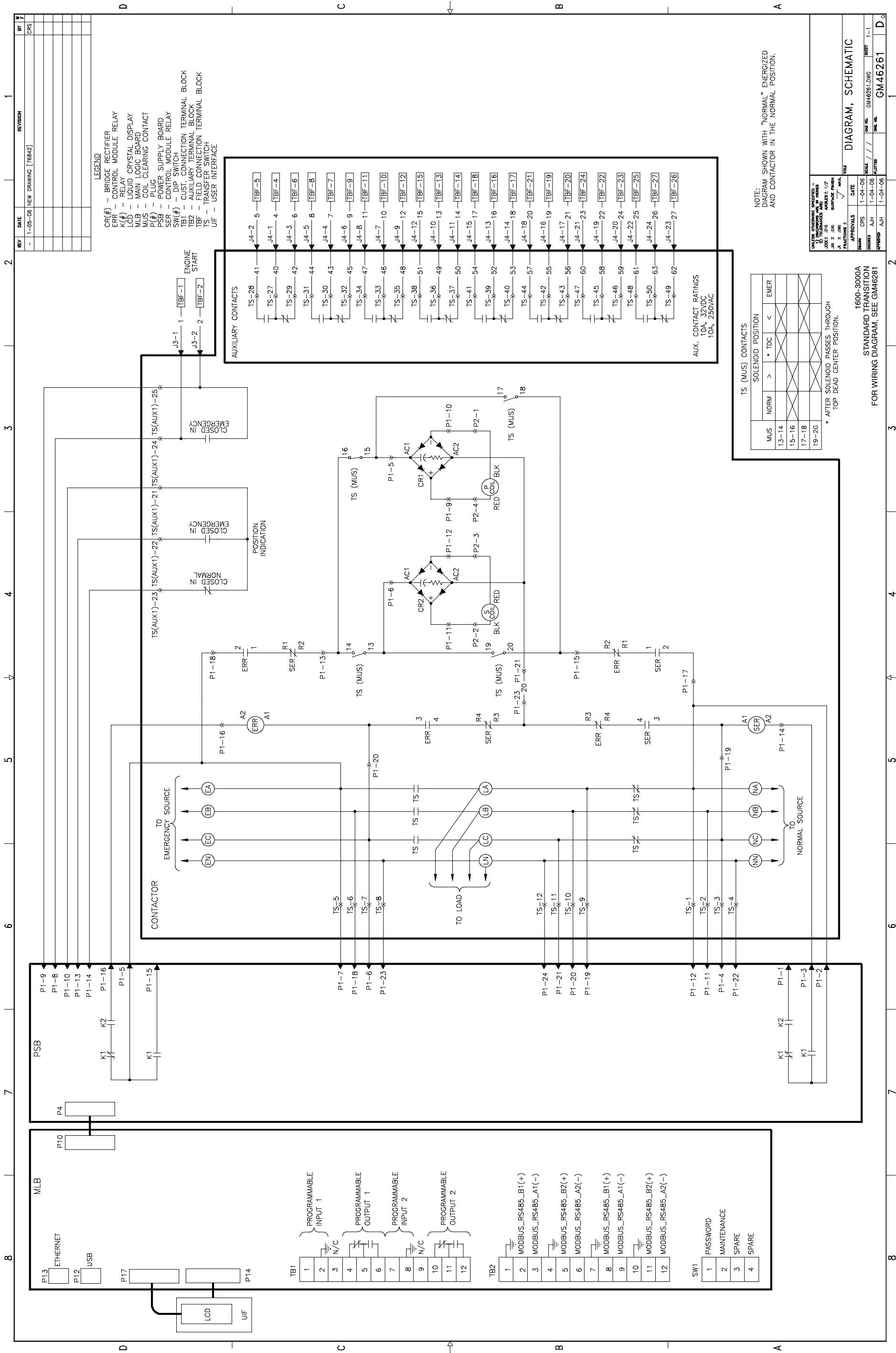
- Consult the Yellow Pages under the heading Generators—Electric
- Visit the DDC/MTU Power Generation website at DDCMTUPowerGeneration.com
- Look at the labels and stickers on your DDC/MTU Power Generation product or review the appropriate literature or documents included with the product

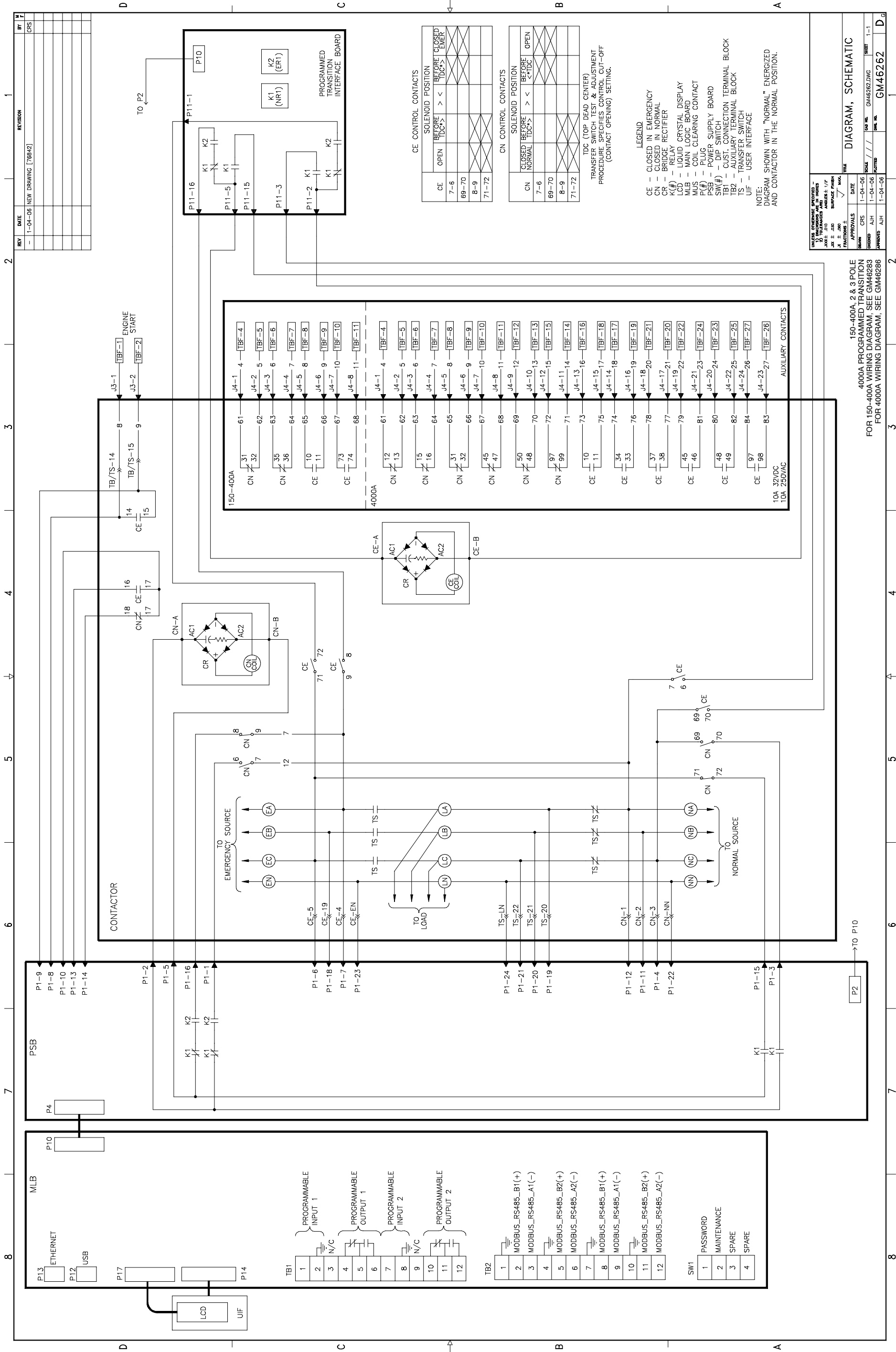
Schematics and Wiring Diagrams

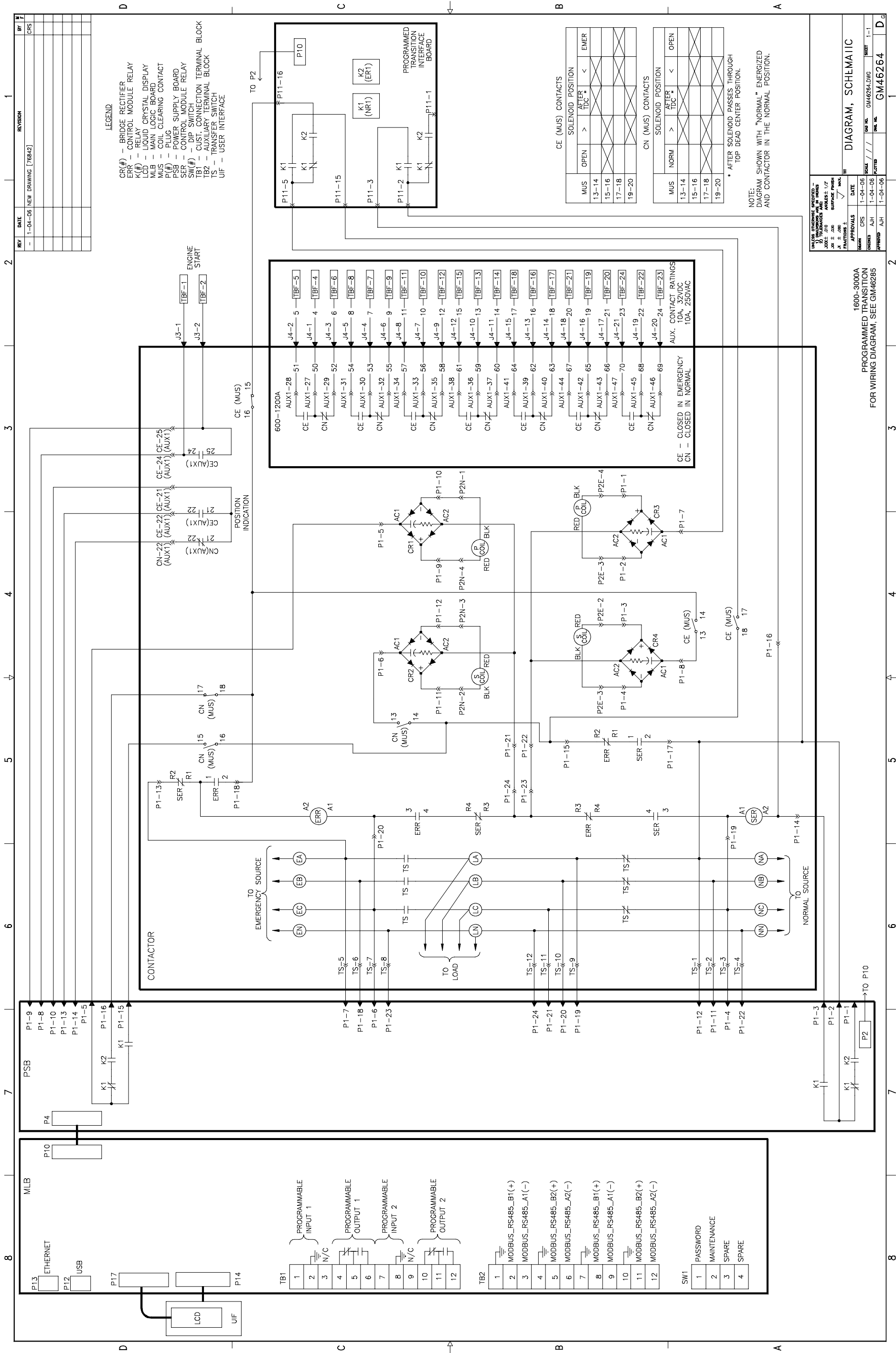
Model	Schematics	Part Number	Page
SCP	Programmed Transition, 150–400A, 2- and 3-Pole	GM46262-S	8
SCP	Programmed Transition, 150–400A, 4-Pole	GM46263-S	9
SCP	Programmed Transition, 600–1200A	GM46263-S	9
SCP	Programmed Transition, 1600–3000A	GM46264-S	10
SCP	Programmed Transition, 4000A	GM46262-S	8
SCS	Standard Transition, 30–400A	GM46259-S	5
SCS	Standard Transition, 600–1200A	GM46260-S	6
SCS	Standard Transition, 1600–3000A	GM46261-S	7
SCS	Standard Transition, 4000A	GM46259-S	5
SSP	Programmed Transition, 100–600A, 208–240V, Specific-Breaker-Rated	GM46267-S	13
SSP	Programmed Transition, 100–600A, 380–480V, Specific-Breaker-Rated	GM46268-S	14
SSS	Standard Transition, 40–260A, Specific-Breaker-Rated	GM46265-S	11
SSS	Standard Transition, 400–600A, Specific-Breaker-Rated	GM46266-S	12

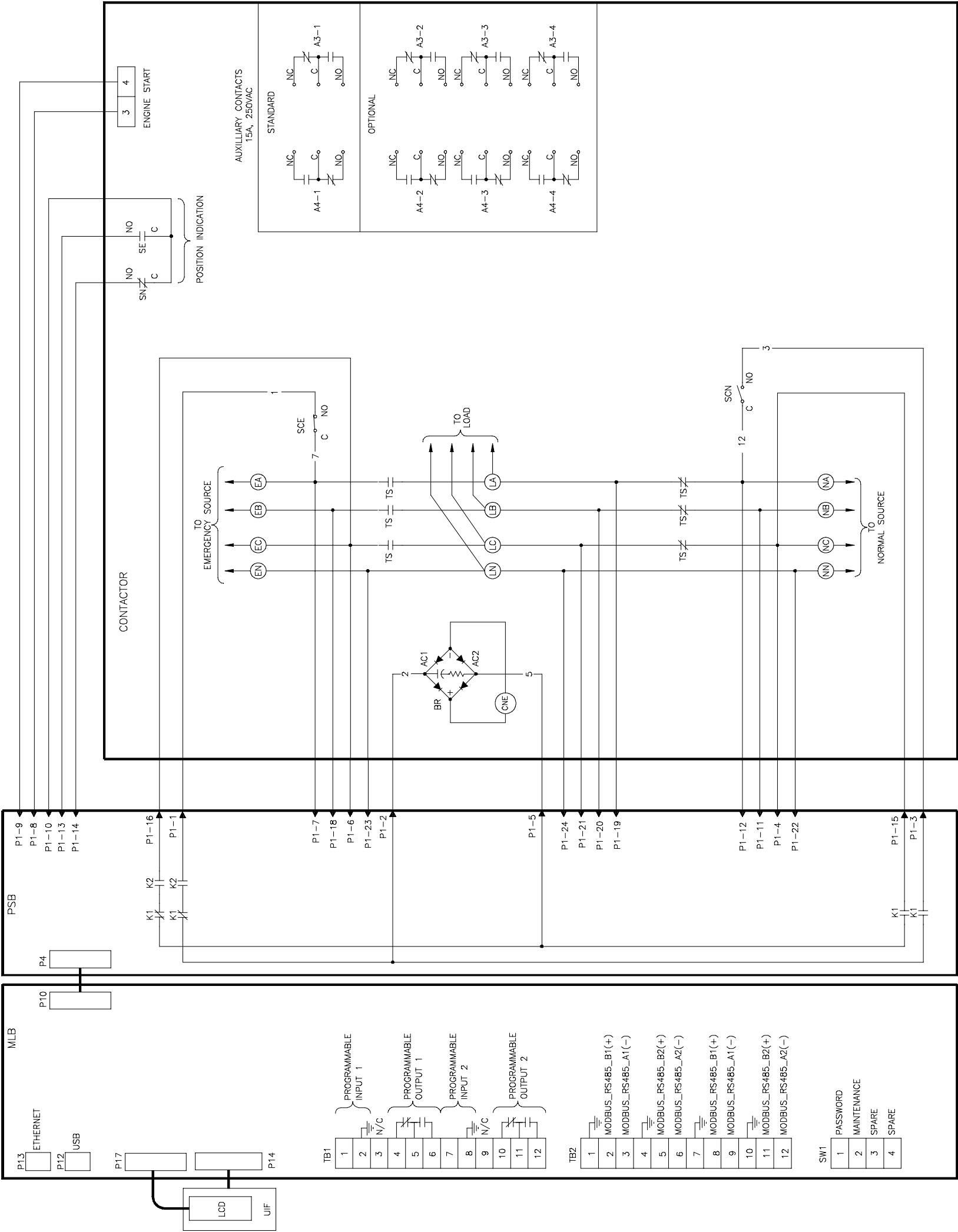
Model	Wiring Diagrams	Part Number	Page
SCP	Programmed Transition, 150–400A, 2- and 3-Pole	GM46283-S	20
SCP	Programmed Transition, 150–400A, 4-Pole	GM46284-S	21
SCP	Programmed Transition, 600–1200A	GM46284-S	21
SCP	Programmed Transition, 1600–3000A	GM46285-S	22
SCP	Programmed Transition, 4000A	GM46286-S	23
SCS	Standard Transition, 30–200A and 230A, 208–480V	GM46278-S	15
SCS	Standard Transition, 260–400A and 230A, 600V	GM46279-S	16
SCS	Standard Transition, 600–1200A	GM46280-S	17
SCS	Standard Transition, 1600–3000A	GM46281-S	18
SCS	Standard Transition, 4000A	GM46282-S	19
SSP	Programmed Transition, 100–400A, 208–240V, Specific-Breaker-Rated	GM46289-S	26
SSP	Programmed Transition, 100–400A, 380–480V, Specific-Breaker-Rated	GM46290-S	27
SSP	Programmed Transition, 600A, 208–240V, Specific-Breaker-Rated	GM46291-S	28
SSP	Programmed Transition, 600A, 380–480V, Specific-Breaker-Rated	GM46292-S	29
SSS	Standard Transition, 40–260A, Specific-Breaker-Rated	GM46287-S	24
SSS	Standard Transition, 400–600A, Specific-Breaker-Rated	GM46288-S	25

Model	Accessory Drawing	Part Number	Page
All	Sensing Accessory	GM47803-S	30









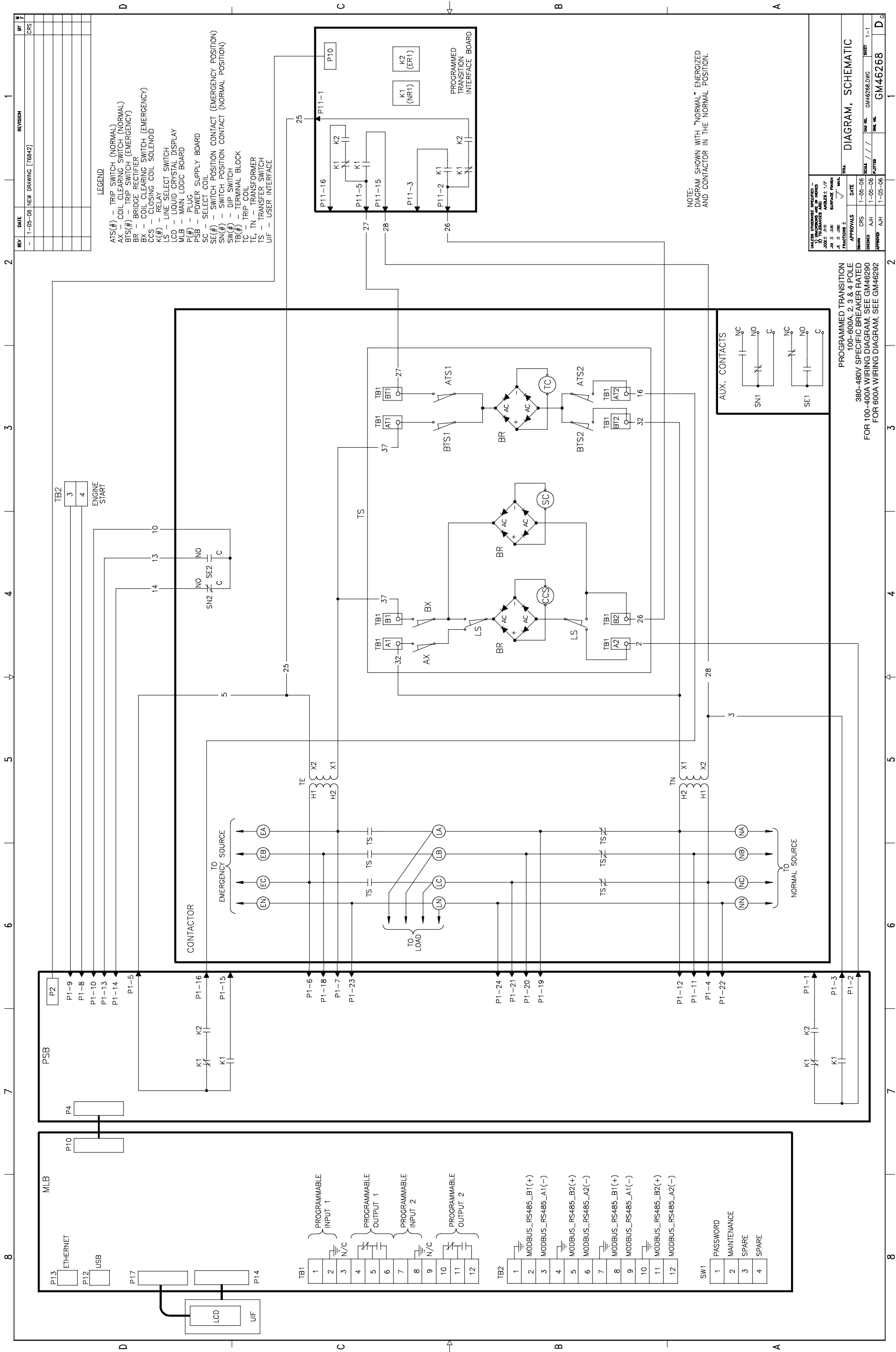
LEGEND

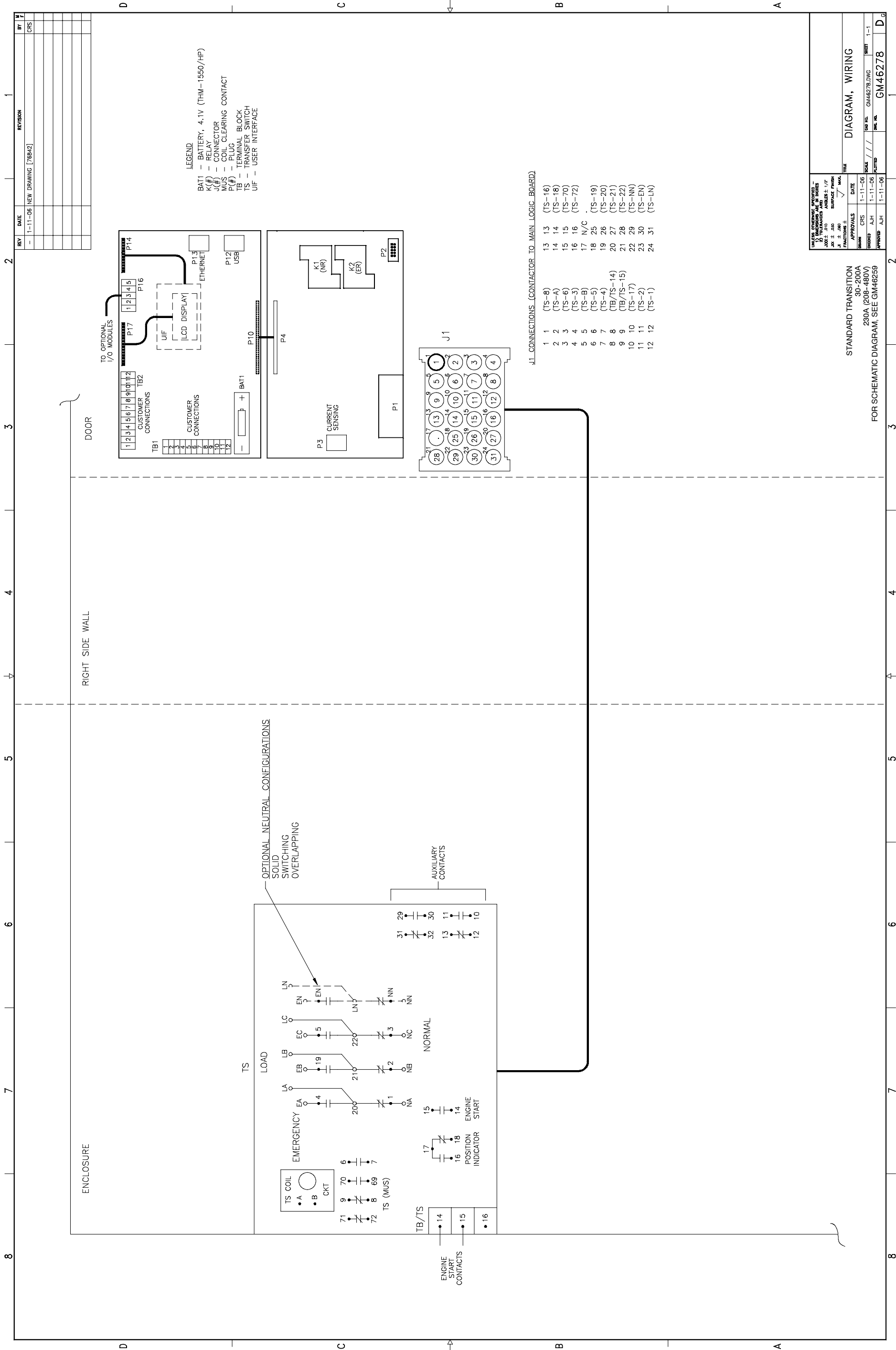
A3, A4 – AUXILIARY CONTACTS
BR – BRIDGE RECTIFIER
CNE – TRANSFER COIL (NORMAL/EMERGENCY)
K(#) – RELAY
LCD – LIQUID CRYSTAL DISPLAY
MLB – MAIN LOGIC BOARD
P(#) – PLUG
PSB – POWER SUPPLY BOARD
SCE – COIL CLEARING CONTACT (EMERGENCY)
SCN – COIL CLEARING CONTACT (NORMAL)
SE – SWITCH POSITION CONTACT (EMERGENCY POSITION)
SN – SWITCH POSITION CONTACT (NORMAL POSITION)
SW(#) – DIP SWITCH
TB1 – CUSTOMER CONNECTION TERMINAL BLOCK
TB2 – AUXILIARY TERMINAL BLOCK
TS – TRANSFER SWITCH
UIF – USER INTERFACE

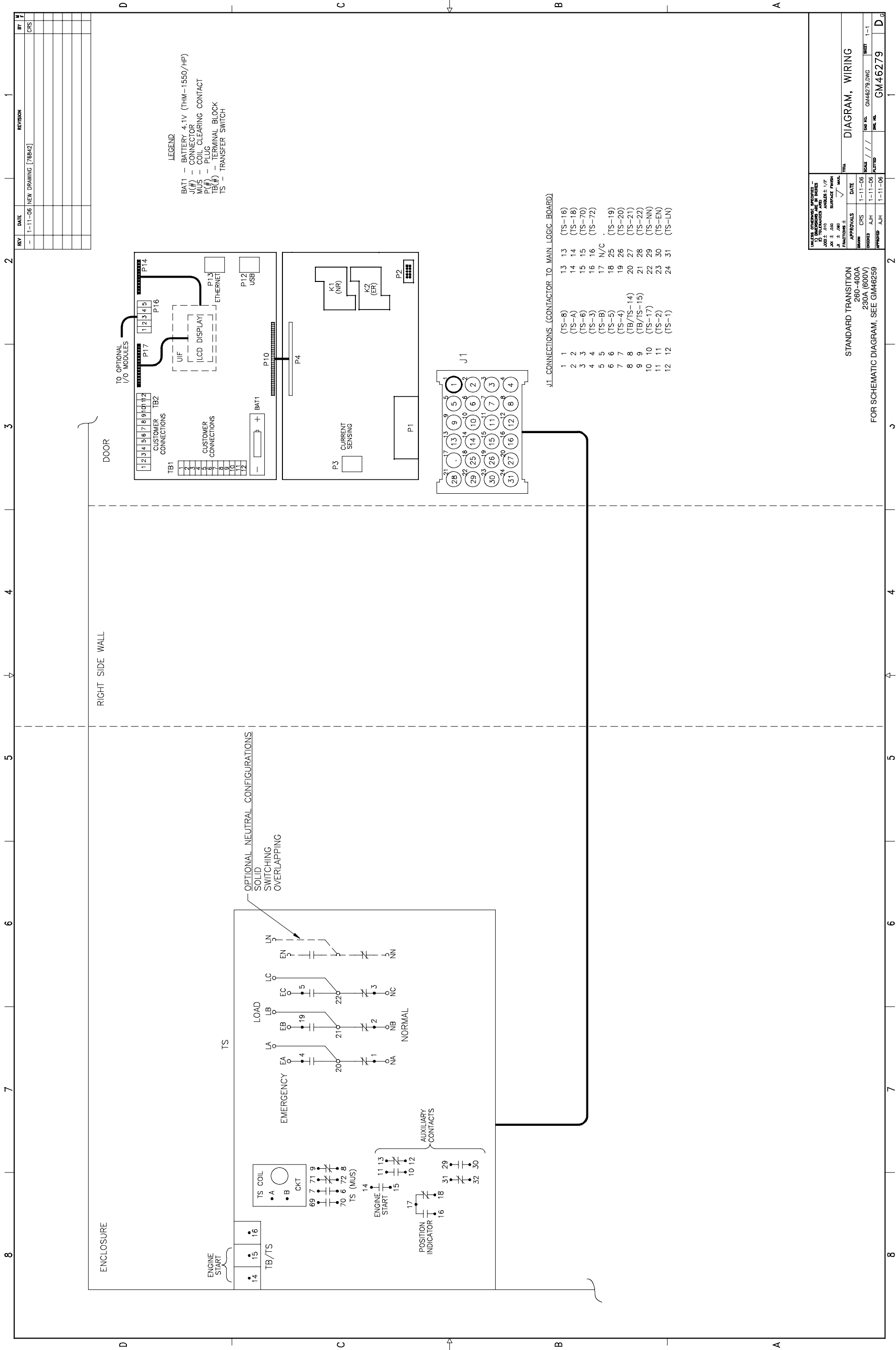
NOTE:
DIAGRAM SHOWN WITH "NORMAL" ENERGIZED
AND CONTACTOR IN THE NORMAL POSITION.

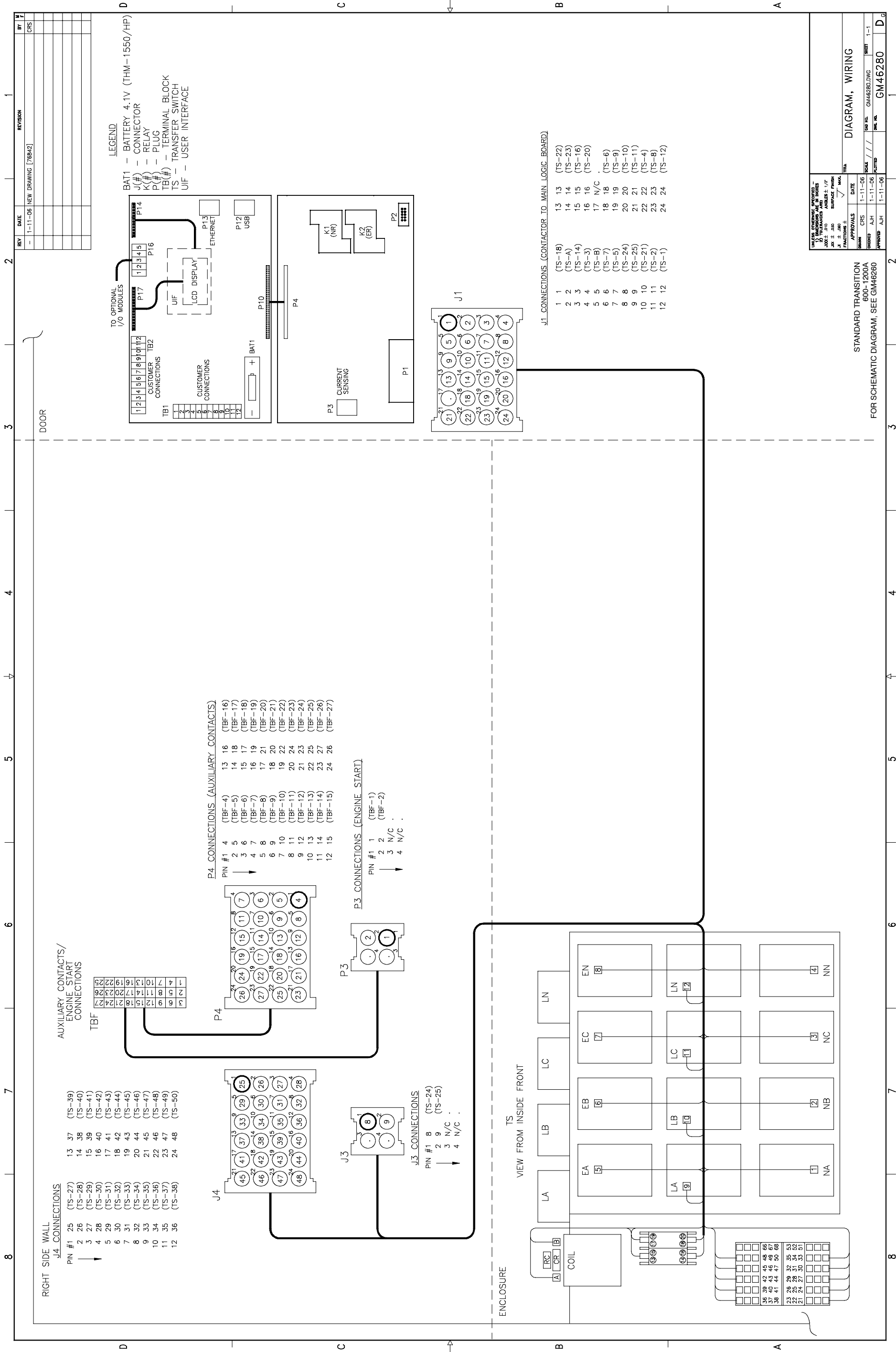
UNLESS OTHERWISE SPECIFIED – 3) TOLERANCES ARE IN INCHES X.XX ± .010 X.X ± .030 SURFACE FINISH FUNCTIONS ±		DATE ✓	DATE ✓	DATE ✓
APPROVALS	DATE	DATE	DATE	DATE
DESIGN	CRS	1-04-06	1-04-06	1-04-06
DESIGNED	AJH	1-04-06	1-04-06	1-04-06
APPROVED	AJH	1-04-06	1-04-06	1-04-06
TITLE		DIAGRAM, SCHEMATIC		
SCALE		1-1		
DWG. NO.		GM46265		
SHEET		D 6		

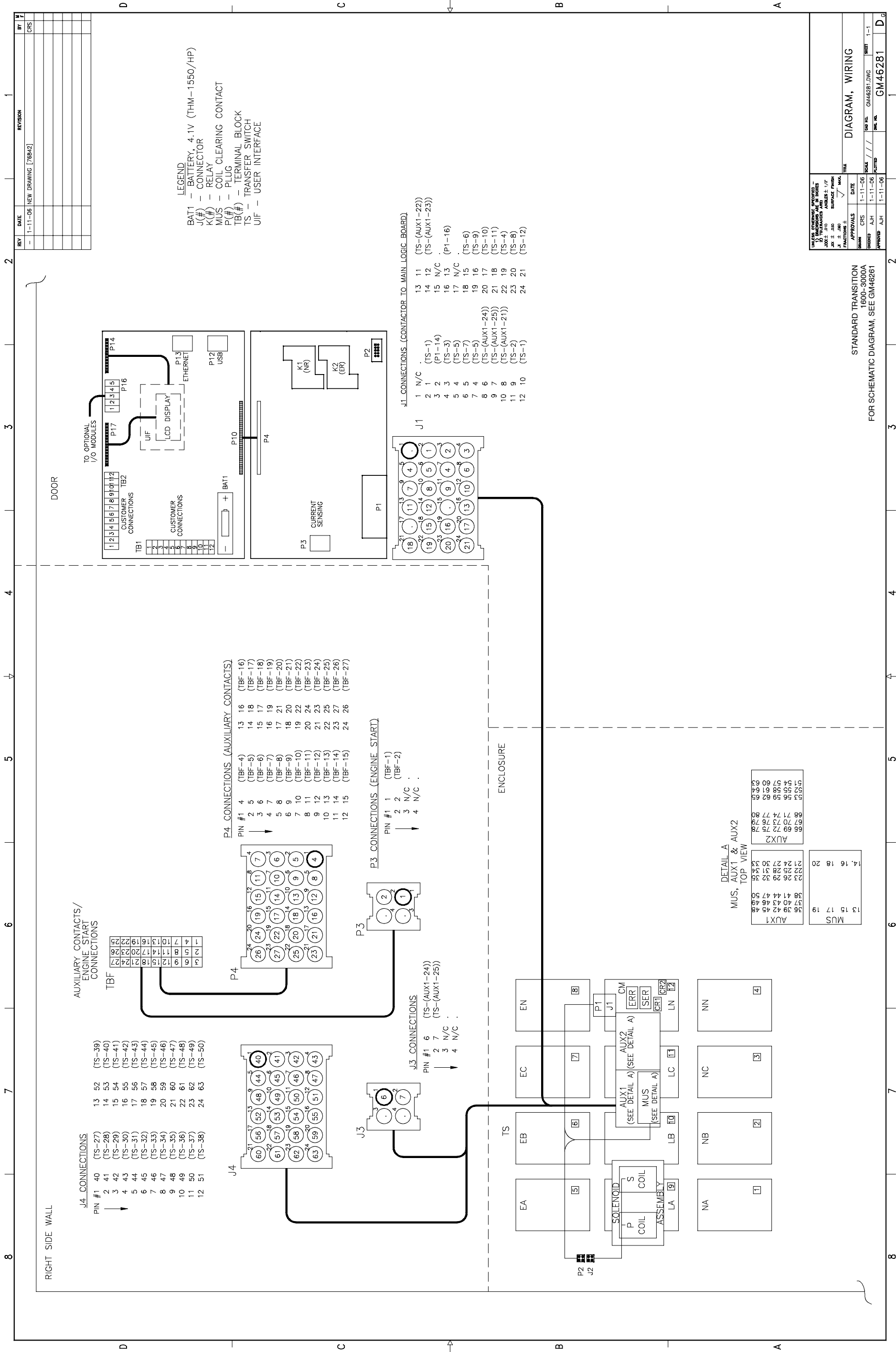
40-260 AMP
STANDARD TRANSITION
SPECIFIC BREAKER RATED
FOR WIRING DIAGRAM, SEE GM46287

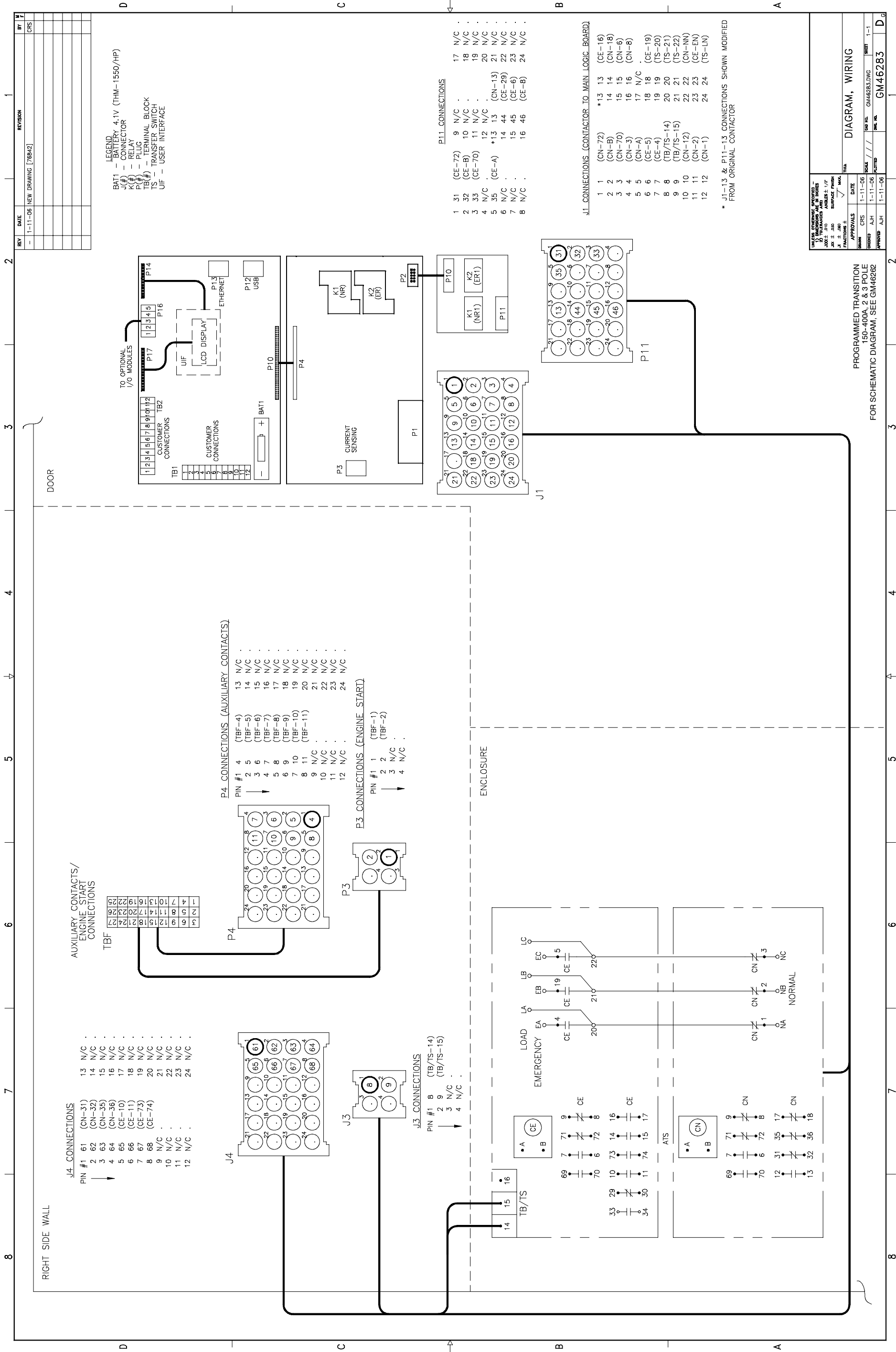




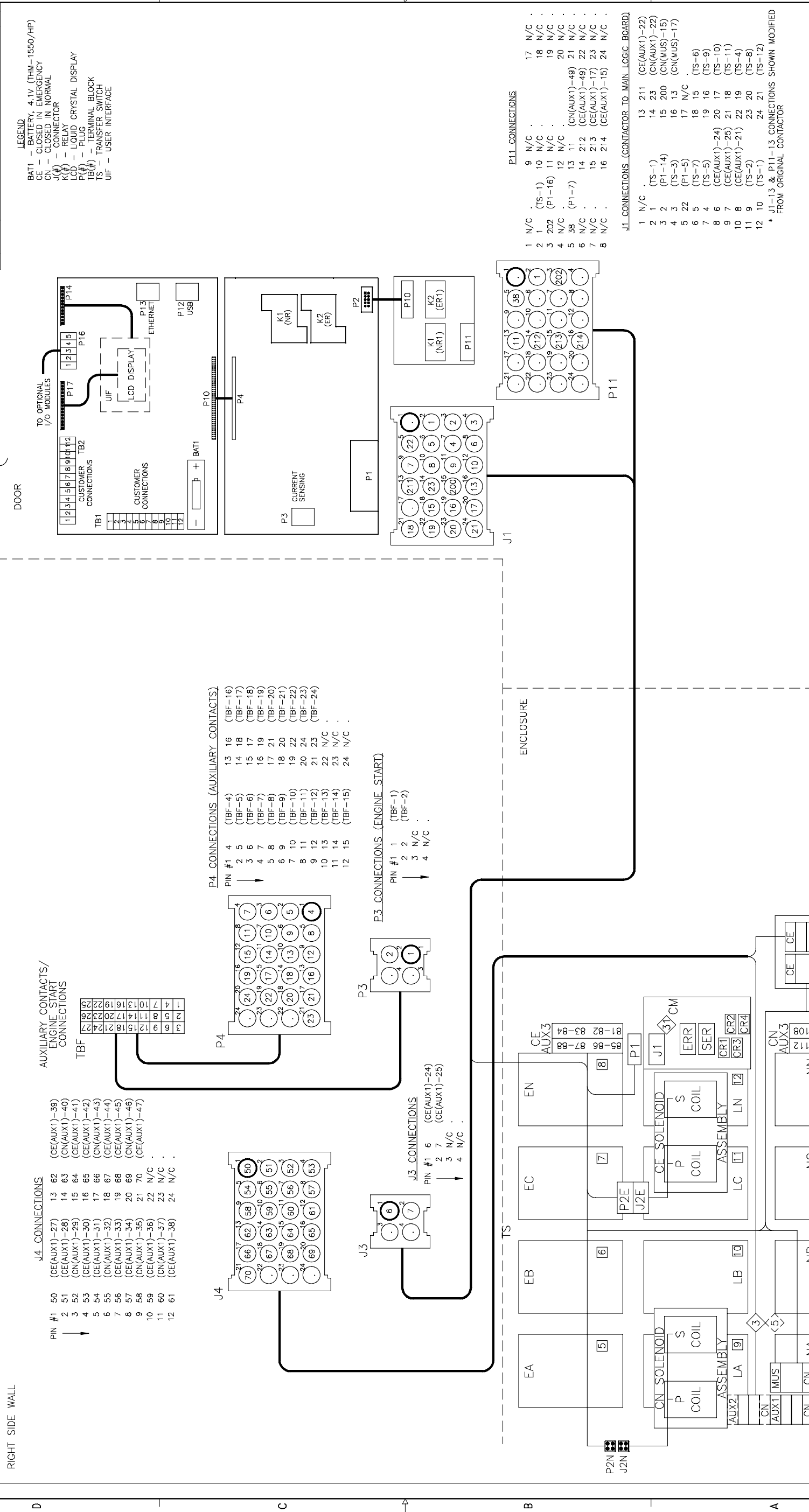




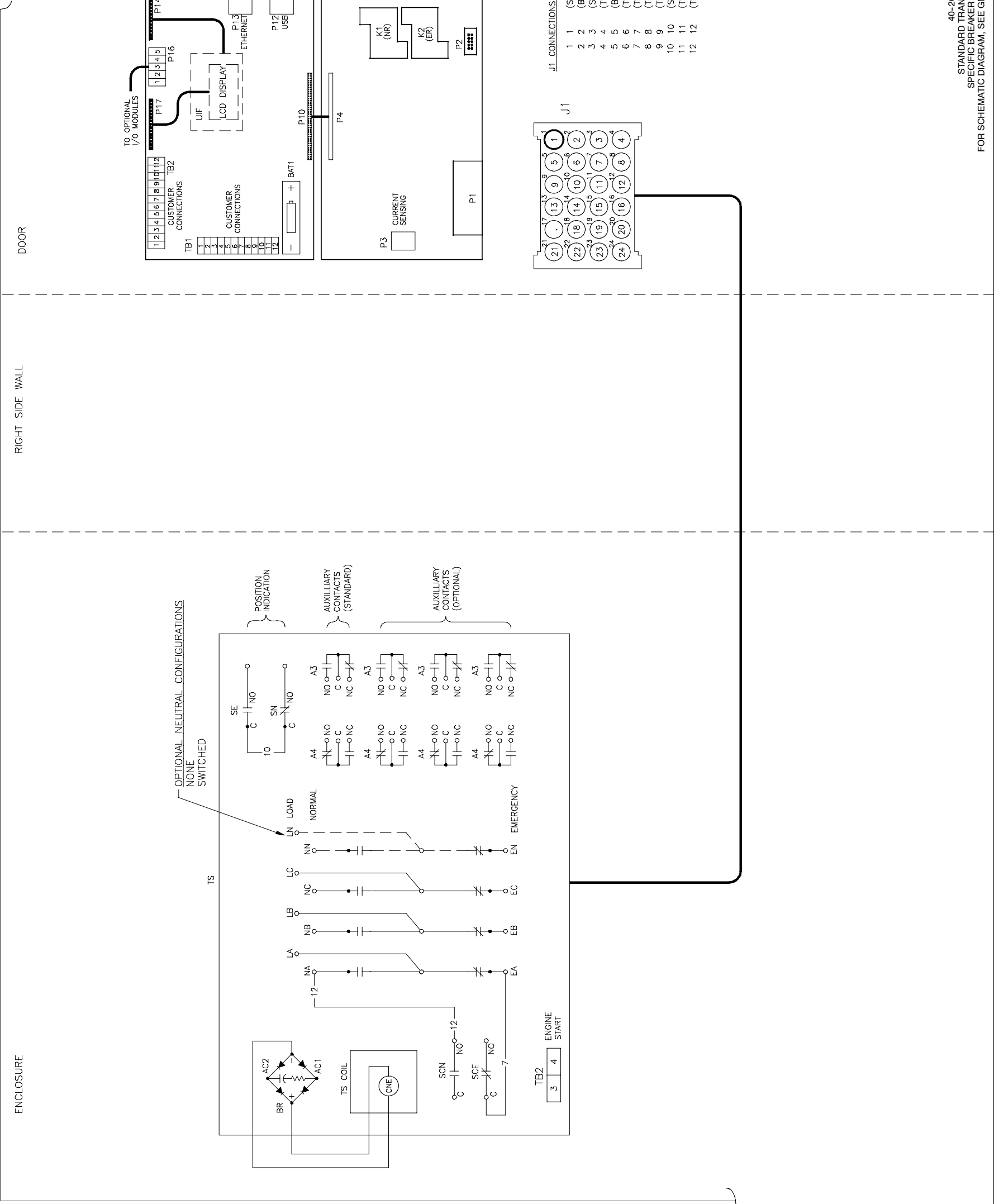




REV	DATE	REVISION	BY	DATE
-	1-11-08	NEW DRAWING [76642]	CRS	



UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES TOLERANCES ARE 2002 ± .010 201 ± .030 202 ± .010 203 ± .030 204 ± .030 205 ± .030 206 ± .030 207 ± .030 208 ± .030 209 ± .030 210 ± .030 211 ± .030 212 ± .030 213 ± .030 214 ± .030 215 ± .030 216 ± .030 217 ± .030 218 ± .030 219 ± .030 220 ± .030 221 ± .030 222 ± .030 223 ± .030 224 ± .030 225 ± .030 226 ± .030 227 ± .030 228 ± .030 229 ± .030 230 ± .030 231 ± .030 232 ± .030 233 ± .030 234 ± .030 235 ± .030 236 ± .030 237 ± .030 238 ± .030 239 ± .030 240 ± .030 241 ± .030 242 ± .030 243 ± .030 244 ± .030 245 ± .030 246 ± .030 247 ± .030 248 ± .030 249 ± .030 250 ± .030 251 ± .030 252 ± .030 253 ± .030 254 ± .030 255 ± .030 256 ± .030 257 ± .030 258 ± .030 259 ± .030 260 ± .030 261 ± .030 262 ± .030 263 ± .030 264 ± .030 265 ± .030 266 ± .030 267 ± .030 268 ± .030 269 ± .030 270 ± .030 271 ± .030 272 ± .030 273 ± .030 274 ± .030 275 ± .030 276 ± .030 277 ± .030 278 ± .030 279 ± .030 280 ± .030 281 ± .030 282 ± .030 283 ± .030 284 ± 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.030 649 ± .030 650 ± .030 651 ± .030 652 ± .030 653 ± .030 654 ± .030 655 ± .030 656 ± .030 657 ± .030 658 ± .030 659 ± .030 660 ± .030 661 ± .030 662 ± .030 663 ± .030 664 ± .030 665 ± .030 666 ± .030 667 ± .030 668 ± .030 669 ± .030 670 ± .030 671 ± .030 672 ± .030 673 ± .030 674 ± .030 675 ± .030 676 ± .030 677 ± .030 678 ± .030 679 ± .030 680 ± .030 681 ± .030 682 ± .030 683 ± .030 684 ± .030 685 ± .030 686 ± .030 687 ± .030 688 ± .030 689 ± .030 690 ± .030 691 ± .030 692 ± .030 693 ± .030 694 ± .030 695 ± .030 696 ± .030 697 ± .030 698 ± .030 699 ± .030 700 ± .030 701 ± .030 702 ± .030 703 ± .030 704 ± .030 705 ± .030 706 ± .030 707 ± .030 708 ± .030 709 ± .030 710 ± .030 711 ± .030 712 ± .030 713 ± .030 714 ± .030 715 ± .030 716 ± .030 717 ± .030 718 ± .030 719 ± .030 720 ± .030 721 ± .030 722 ± .030 723 ± .030 724 ± .030 725 ± .030 726 ± .030 727 ± .030 728 ± .030 729 ± .030 730 ± .030 731 ± .030 732 ± .030 733 ± .030 734 ± .030 735 ± .030 736 ± .030 737 ± .030 738 ± .030 739 ± .030 740 ± .030 741 ± .030 742 ± .030 743 ± .030 744 ± .030 745 ± .030 746 ± .030 747 ± .030 748 ± .030 749 ± .030 750 ± .030 751 ± .030 752 ± .030 753 ± .030 754 ± .030 755 ± .030 756 ± .030 757 ± .030 758 ± .030 759 ± .030 760 ± .030 761 ± .030 762 ± .030 763 ± .030 764 ± .030 765 ± .030 766 ± .030 767 ± .030 768 ± .030 769 ± .030 770 ± .030 771 ± .030 772 ± .030 773 ± .030 774 ± .030 775 ± .030 776 ± .030 777 ± .030 778 ± .030 779 ± .030 780 ± .030 781 ± .030 782 ± .030 783 ± .030 784 ± .030 785 ± .030 786 ± .030 787 ± .030 788 ± .030 789 ± .030 790 ± .030 791 ± .030 792 ± .030 793 ± .030 794 ± .030 795 ± .030 796 ± .030 797 ± .030 798 ± .030 799 ± .030 800 ± .030 801 ± .030 802 ± .030 803 ± .030 804 ± .030 805 ± .030 806 ± .030 807 ± .030 808 ± .030 809 ± .030 810 ± .030 811 ± .030 812 ± .030 813 ± .030 814 ± .030 815 ± .030 816 ± .030 817 ± .030 818 ± .030 819 ± .030 820 ± .030 821 ± .030 822 ± .030 823 ± .030 824 ± .030 825 ± .030 826 ± .030 827 ± .030 828 ± .030 829 ± .030 830 ± .030 831 ± .030 832 ± .030 833 ± .030 834 ± .030 835 ± .030 836 ± .030 837 ± .030 838 ± .030 839 ± .030 840 ± .030 841 ± .030 842 ± .030 843 ± .030 844 ± .030 845 ± .030 846 ± .030 847 ± .030 848 ± .030 849 ± .030 850 ± .030 851 ± .030 852 ± .030 853 ± .030 854 ± .030 855 ± .030 856 ± .030 857 ± .030 858 ± .030 859 ± .030 860 ± .030 861 ± .030 862 ± .030 863 ± .030 864 ± .030 865 ± .030 866 ± .030 867 ± .030 868 ± .030 869 ± .030 870 ± .030 871 ± .030 872 ± .030 873 ± .030 874 ± .030 875 ± .030 876 ± .030 877 ± .030 878 ± .030 879 ± .030 880 ± .030 881 ± .030 882 ± .030 883 ± .030 884 ± .030 885 ± .030 886 ± .030 887 ± .030 888 ± .030 889 ± .030 890 ± .030 891 ± .030 892 ± .030 893 ± .030 894 ± .030 895 ± .030 896 ± .030 897 ± .030 898 ± .030 899 ± .030 900 ± .030 901 ± .030 902 ± .030 903 ± .030 904 ± .030 905 ± .030 906 ± .030 907 ± .030 908 ± .030 909 ± .030 910 ± .030 911 ± .030 912 ± .030 913 ± .030 914 ± .030 915 ± .030 916 ± .030 917 ± .030 918 ± .030 919 ± .030 920 ± .030 921 ± 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± .030 1012 ± .030 1013 ± .030 1014 ± .030 1015 ± .030 1016 ± .030 1017 ± .030 1018 ± .030 1019 ± .030 1020 ± .030 1021 ± .030 1022 ± .030 1023 ± .030 1024 ± .030 1025 ± .030 1026 ± .030 1027 ± .030 1028 ± .030 1029 ± .030 1030 ± .030 1031 ± .030 1032 ± .030 1033 ± .030 1034 ± .030 1035 ± .030 1036 ± .030 1037 ± .030 1038 ± .030 1039 ± .030 1040 ± .030 1041 ± .030 1042 ± .030 1043 ± .030 1044 ± .030 1045 ± .030 1046 ± .030 1047 ± .030 1048 ± .030 1049 ± .030 1050 ± .030 1051 ± .030 1052 ± .030 1053 ± .030 1054 ± .030 1055 ± .030 1056 ± .030 1057 ± .030 1058 ± .030 1059 ± .030 1060 ± .030 1061 ± .030 1062 ± .030 1063 ± .030 1064 ± .030 1065 ± .030 1066 ± .030 1067 ± .030 1068 ± .030 1069 ± .030 1070 ± .030 1071 ± .030 1072 ± .030 1073 ± .030 1074 ± .030 1075 ± .030 1076 ± .030 1077 ± .030 1078 ± .030 1079 ± .030 1080 ± .030 1081 ± .030 1082 ± .030 1083 ± .030 1084 ± .030 1085 ± .030 1086 ± .030 1087 ± .030 1088 ± .030 1089 ± .030 1090 ± .030 1091 ± .030 1092 ± .030 1093 ± .030 1094 ± 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1178 ± .030 1179 ± .030 1180 ± .030 1181 ± .030 1182 ± .030 1183 ± .030 1184 ± .030 1185 ± .030 1186 ± .030 1187 ± .030 1188 ± .030 1189 ± .030 1190 ± .030 1191 ± .030 1192 ± .030 1193 ± .030 1194 ± .030 1195 ± .030 1196 ± .030 1197 ± .030 1198 ± .030 1199 ± .030 1200 ± .030 1201 ± .030 1202 ± .030 1203 ± .030 1204 ± .030 1205 ± .030 1206 ± .030 1207 ± .030 1208 ± .030 1209 ± .030 1210 ± .030 1211 ± .030 1212 ± .030 1213 ± .030 1214 ± .030 1215 ± .030 1216 ± .030 1217 ± .030 1218 ± .030 1219 ± .030 1220 ± .030 1221 ± .030 1222 ± .030 1223 ± .030 1224 ± .030 1225 ± .030 1226 ± .030 1227 ± .030 1228 ± .030 1229 ± .030 1230 ± .030 1231 ± .030 1232 ± .030 1233 ± .030 1234 ± .030 1235 ± .030 1236 ± .030 1237 ± .030 1238 ± .030 1239 ± .030 1240 ± .030 1241 ± .030 1242 ± .030 1243 ± .030 1244 ± .030 1245 ± .030 1246 ± .030 1247 ± .030 1248 ± .030 1249 ± .030 1250 ± .030 1251 ± .030 1252 ± .030 1253 ± .030 1254 ± .030 1255 ± .030 1256 ± .030 1257 ± .030 1258 ± .030 1259 ± .030 1260 ± .030 1261 ± .030 1262 ± .030 1263 ± .030 1264 ± .030 1265 ± .030 1266 ± .030 1267 ± .030 1268 ± .030 1269 ± .030 1270 ± .030 1271 ± .030 1272 ± .030 1273 ± .030 1274 ± .030 1275 ± .030 1276 ± .030 1277 ± .030 1278 ± .030 1279 ± .030 1280 ± .030 1281 ± .030 1282 ± .030 1283 ± .030 1284 ± .030 1285 ± .030 1286 ± .030 1287 ± .030 1288 ± .030 1289 ± .030 1290 ± .030 1291 ± .030 1292 ± .030 1293 ± .030 1294 ± .030 1295 ± .030 1296 ± .030 1297 ± .030 1298 ± .030 1299 ± .030 1300 ± .030 1301 ± .030 1302 ± .030 1303 ± .030 1304 ± .030 1305 ± .030 1306 ± .030 1307 ± .030 1308 ± .030 1309 ± .030 1310 ± .030 1311 ± .030 1312 ± .030 1313 ± .030 1314 ± .030 1315 ± .030 1316 ± .030 1317 ± .030 1318 ± .030 1319 ± .030 1320 ± .030 1321 ± .030 1322 ± .030 1323 ± .030 1324 ± .030 1325 ± .030 1326 ± .030 1327 ± .030 1328 ± .030 1329 ± .030 1330 ± .030 1331 ± .030 1332 ± .030 1333 ± .030 1334 ± .030 1335 ± .030 1336 ± .030 1337 ± .030 1338 ± .030 1339 ± .030 1340 ± .030 1341 ± .030 1342 ± .030 1343 ± .030 1344 ± .030 1345 ± .030 1346 ± .030 1347 ± .030 1348 ± .030 1349 ± .030 1350 ± .030 1351 ± .030 1352 ± .030 1353 ± .030 1354 ± .030 1355 ± .030 1356 ± .030 1357 ± .030 1358 ± .030 1359 ± .030 1360 ± .030 1361 ± .030 1362 ± .030 1363 ± .030 1364 ± .030 1365 ± .030 1366 ± .030 1367 ± .030 1368 ± .030 1369 ± .030 1370 ± .030 1371 ± .030 1372 ± .030 1373 ± .030 1374 ± .030 1375 ± .030 1376 ± .030 1377 ± .030 1378 ± .030 1379 ± .030 1380 ± .030 1381 ± .030 1382 ± .030 1383 ± .030 1384 ± .030 1385 ± .030 1386 ± .030 1387 ± .030 1388 ± .030 1389 ± .030 1390 ± .030 1391 ± .030 1392 ± .030 1393 ± .030 1394 ± .030 1395 ±
--



D

C

B

A

LEGEND

BAT1 - BATTERY, 4.1V (TLM-1550/HP)

CE - CLOSED IN EMERGENCY POSITION CONTACTS

CN - CLOSED IN NORMAL POSITION CONTACTS

K(#) - RELAY

P(#) - CONNECTOR

SE(#) - SWITCH POSITION CONTACT (EMERGENCY POSITION)

SW(#) - DIP SWITCH

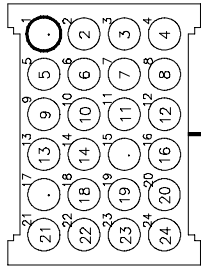
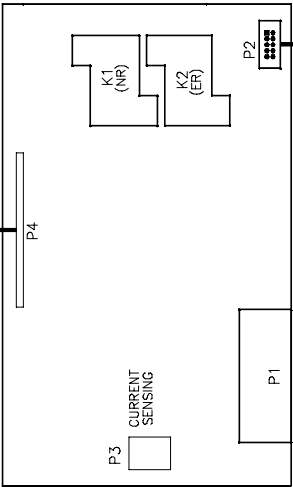
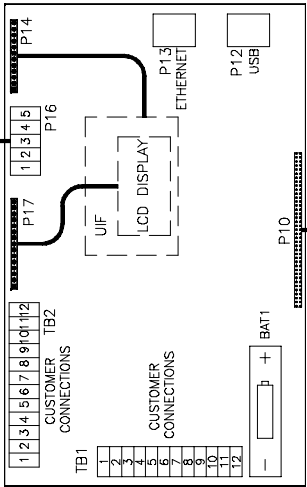
TB(#) - TERMINAL BLOCK

TN - TRANSFORMER (EMERGENCY)

TS - TRANSFORMER (NORMAL)

UIF - TRANSFER SWITCH

UIF - USER INTERFACE

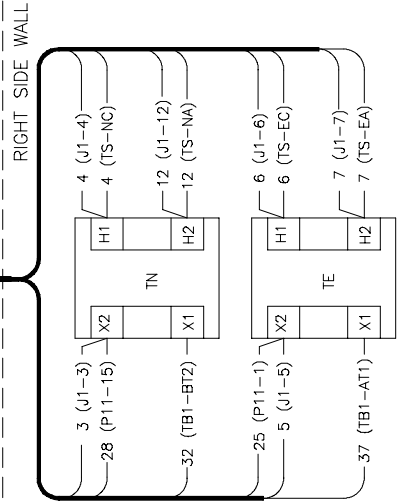


P11 CONNECTIONS

- | | | |
|----|-----|----------------|
| 1 | 25 | (TE-X2) |
| 2 | 26 | (TS-(TB1-B2)) |
| 3 | N/C | . |
| 4 | N/C | . |
| 5 | 27 | (TS-(TB1-BT1)) |
| 6 | N/C | . |
| 7 | N/C | . |
| 8 | N/C | . |
| 9 | N/C | . |
| 10 | N/C | . |
| 11 | N/C | . |
| 12 | N/C | . |
| 13 | N/C | . |
| 14 | N/C | . |
| 15 | 28 | (TN-X2) |
| 16 | N/C | . |
| 17 | N/C | . |
| 18 | N/C | . |
| 19 | N/C | . |
| 20 | N/C | . |
| 21 | N/C | . |
| 22 | N/C | . |
| 23 | N/C | . |
| 24 | N/C | . |

P1 CONNECTIONS

- | | | |
|----|-----|----------------|
| 1 | N/C | . |
| 2 | 2 | (TS-(TB1-A2)) |
| 3 | 3 | (TN-X2) |
| 4 | 4 | (TN-H1) |
| 5 | 5 | (TE-X2) |
| 6 | 6 | (TE-H1) |
| 7 | 7 | (TE-H2) |
| 8 | 8 | (TB2-3) |
| 9 | 9 | (TB2-4) |
| 10 | 10 | (SN2-C) |
| 11 | 11 | (TS-NB) |
| 12 | 12 | (TN-H2) |
| 13 | 13 | (SE2-NC) |
| 14 | 14 | (SN2-NC) |
| 15 | N/C | . |
| 16 | 16 | (TS-(TB1-AT2)) |
| 17 | N/C | . |
| 18 | 18 | (TS-EB) |
| 19 | 19 | (TS-LA) |
| 20 | 20 | (TS-LB) |
| 21 | 21 | (TS-LC) |
| 22 | 22 | (TS-NN) |
| 23 | 23 | (TS-EN) |
| 24 | 24 | (TS-LN) |



UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES ANGLES ± 1/2° SURFACE FINISH DIMENSIONS ± .005 TOLERANCES ± .005		DATE	1-11-06	SCALE	1-1	FIG. NO.	GM46292.DWG	REV. NO.	1-1
APPROVALS		DATE	1-11-06	DIAGRAM, WIRING					D
DESIGNED	CRS	1-11-06	1-11-06	GM46292					1-1
CHECKED	AJH	1-11-06	1-11-06	GM46292					1-1
APPROVED	AJH	1-11-06	1-11-06	GM46292					1-1

PROGRAMMED TRANSITION
600A, 2, 3 & 4 POLE
380-480V
SPECIFIC BREAKER RATED
FOR SCHEMATIC DIAGRAM. SEE GM46268



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