

01020304050607080910111213141516171819202122232425

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NORWEGIAN STATE RAILWAYS BA
ELECTRIC MULTIPLE UNITS—Class 72
HIGH VOLTAGE AND AUXILIARY
CIRCUITS

01020304050607080910111213141516171819202122232425

DIST.	INDICE	MODIFICHE			VISTO	DATA	INDICE	MODIFICHE			VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>	AREA	DIS. P. GAL		FRONT PAGE	237VE05680C01		MOD. 13	
	12	UPDATED				12.09.07	06	UPDATED				21.03.00		MILANO	PROG.						
	13	UPDATED				18.09.07	07	UPDATED				04/01		ENTE	CONTR.						
							08	UPDATED				03/02		ING/PEV	RESP. UFF.						
							09	UPDATED				06/03									
						10	UPDATED				04/05							SOSTITUISCE	F. 01		
						11	UPDATED				05/07							SOSTITUITO DA	SEGUE F. 02		

DISEGNO ESEGUITO CON
 Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
 vietato riprodurre o comunicare a terzi
 il contenuto del presente disegno

DIST.

010203			04050607080910							11	12	13	14	1516171819202122								2324		25														
FUNCTION			TITLE							SHEET		REV.		TITLE								SHEET		REV.														
A			FRONT PAGE							01		13		LOADS 230Vac-16 2/3Hz (MOTOR-CAR BMb)								25		09		A												
			TITLE SHEETS							02		13		LOADS 230Vac-16 2/3Hz (MOTOR-CAR BMb)								26		09														
B			REVISION LOG							03		13		AUXILIARY SUPPLY 230 Vac-50Hz								27		08		B												
C			H.V.POWER SUPPLY-MAIN TRANSFORMERS							04		07		AIR CONDIT. PASSENGERS SYSTEM (BMa-BP)								28		07		C												
			POWER CIRCUIT MAIN CONVERTER 1							05		07		AIR CONDIT. PASSENGERS SYSTEM (BC-BMb)								29		07														
D			POWER CIRCUIT MAIN CONVERTER 2							06		07		APPARATUS LIST								30		07		D												
			POWER CIRCUIT MAIN CONVERTER 3							07		07		APPARATUS LIST								31		07		E												
E			POWER CIRCUIT MAIN CONVERTER 4							08		07		APPARATUS LIST								32		07														
F			LOADS 1000Vac(MOTOR CAR BMa/TRAILER BP)							09		08		APPARATUS LIST								33		07		F												
G			LOADS 1000Vac(MOTOR CAR BMb/TRAILER BC)							10		08		APPARATUS LIST								34		07		G												
			SPARE							11		07		APPARATUS LIST								35		07														
H			M.V. POWER SUPPLY (3X400Vac-50Hz)							12		08		APPARATUS LIST								36		07		H												
			LOADS 3X400Vac-50Hz (MOTOR-CAR BMa)							13		08		APPARATUS LIST								37		08		I												
			LOADS 3X400Vac-50Hz (MOTOR-CAR BMa)							14		09		APPARATUS LIST								38		09														
K			LOADS 3X400Vac-50Hz (TRAILER-CAR BP)							15		08		APPARATUS LIST								39		09		K												
J			LOADS 3X400Vac-50Hz (TRAILER-CAR BC)							16		08		APPARATUS LIST								40		07		J												
			LOADS 3X400Vac-50Hz (MOTOR-CAR BMb)							17		08		APPARATUS LIST								41		07														
L			LOADS 3X400Vac-50Hz (MOTOR-CAR BMb)							18		09		APPARATUS LIST								42		08		L												
			POWER SUPPLY (230Vac-16 2/3Hz)							19		08		APPARATUS LIST								43		07		M												
			LOADS 230Vac-16 2/3Hz (MOTOR-CAR BMa)							20		09		APPARATUS LIST								44		07														
N			LOADS 230Vac-16 2/3Hz (MOTOR-CAR BMa)							21		09		APPARATUS LIST								45		07		N												
			LOADS 230Vac-16 2/3Hz (TRAILER-CAR BP)							22		09		APPARATUS LIST								46		07		O												
O			LOADS 230Vac-16 2/3Hz (TRAILER-CAR BC)							23		09		APPARATUS LIST								47		07														
P			LOADS 230Vac-16 2/3Hz (TRAILER-CAR BC)							24		09		APPARATUS LIST								48		07		P												
INDICE			MODIFICHE			VISTO	DATA	INDICE			MODIFICHE			VISTO	DATA	<div>ANSALDO</div> <div>Area Trasporti s.p.a.</div>										AREA MILANO		DIS. P. GAL		TITLE SHEET					237VE05680C01		MOD. 13	
12	UPDATE					N.V.	12.09.07	06	UPDATED						21.03.00											ENTE ING/PEV		PROG.										
13	UPDATE						18.09.07	07	UPDATED						04/01													CONTR.										
								08	UPDATED						03/02																							
								09	UPDATED						06/03																							
								10	UPDATED						04/03																							
								11	UPDATED						05/07																							

ANSALDO

Ansaldo Trasporti s.p.a.

AREA
 MILANO
 ENTE
 ING/PEV

DIS. P. GAL
 PROG.
 CONTR.
 RESP. UFF.

TITLE SHEET

237VE05680C01

MOD. 13

SOSTITUISCE
 SOSTITUITO DA

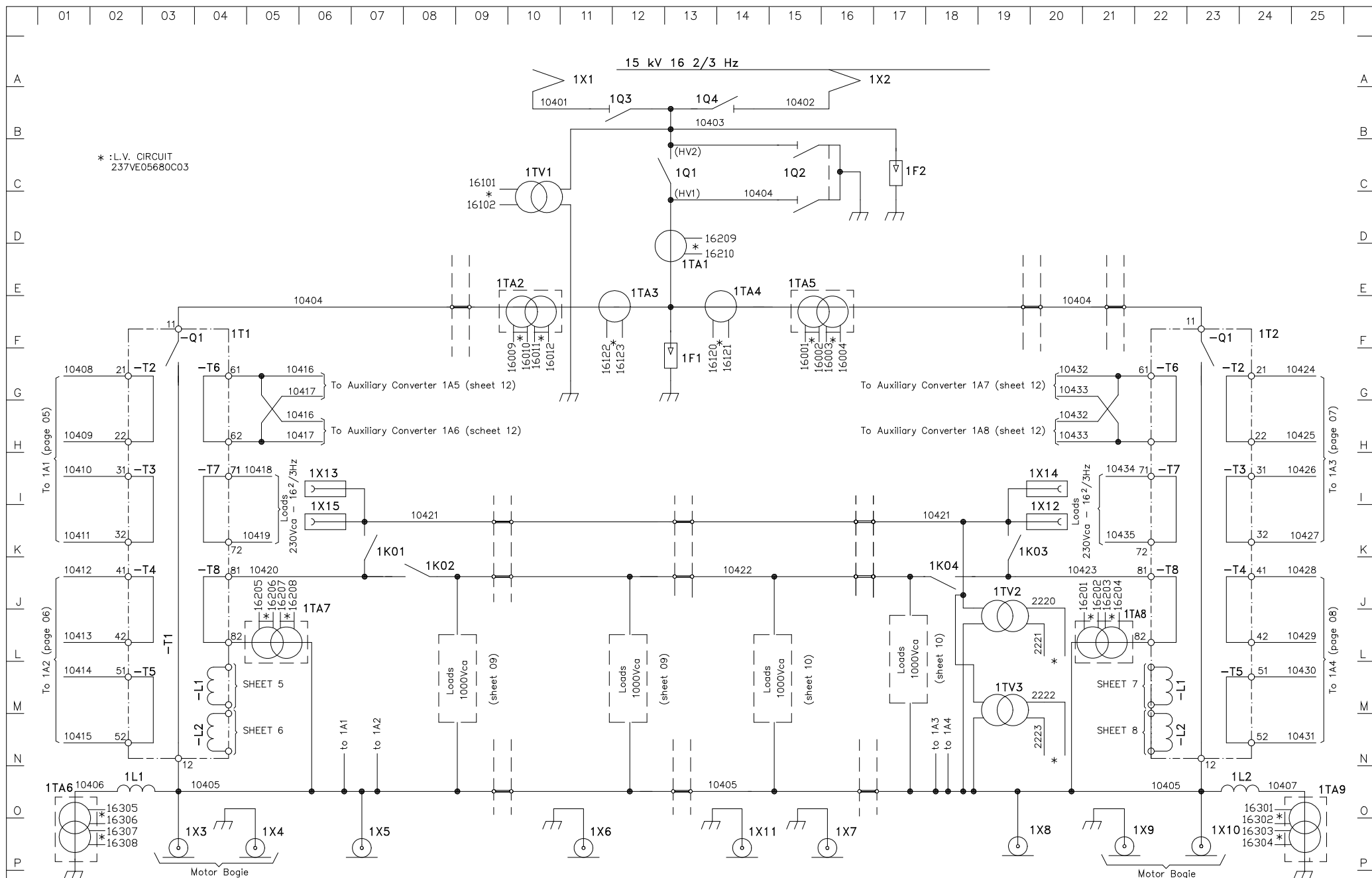
F. 02
 SEQUE F. 03

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
A	REV.	DESCRIPTION							DATE	SIGN.	ESP.	DESCRIPTION							DATE	SIGN.						A
B	00	EMISSION							20.10.98																	B
C	01	REDRAWING							30.06.99																	C
D	02	MODIFICATION SHEETS 01,02,03,04,12,14,15,16,																								D
		17,18,20,21,22,23,24,25,26,27,36,37,38,39,40																								
E		41,42,43,44,45,46,47.							30.07.99																	E
F	03	MODIFICATION SHEETS 01,02,03,05,06,07,08,22,																								F
G		37,38,39,41,42,45.							31.08.99																	G
H	04	MODIFICATION SHEETS 01,02,03,04,05,06,07,08,																								H
I		12,14,15,16,18,19,20,22,23,25,33,36,41,47.																								I
J		INTRODUCED SHEETS 09,10,28,29,48.							28.10.99																	J
K	05	MODIFICATION SHEETS 01,02,03,04,09,10,14,18,																								K
L		20,25,28,29,33,38,39.							15.12.99																	L
M	06	MODIFICATION SHEETS 01÷48							21.03.00																	M
N	07	MODIFICATION SHEETS 01-48							04/01																	N
O	08	MODIFICATION SHEETS 01-48							03/02																	O
P	09	MODIFICATION SHEETS 01,02,03,14,16,18,37,38							06/03																	P
	10	MODIFICATION							04/05																	
	11	MODIFICATION SHEETS 01,02,03,20,21,22,23,24,																								
		25,26,38,39,42							05/07																	
	12	MODIFICATION SHEETS 01,02,03,20,21,22,23,24,																								
		25,26,38,39,42							05/07																	
	13	MODIFICATION SHEETS 01,02,03,42							09/07																	



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



* :L.V. CIRCUIT
237VE05680C03

INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
04	Introduced 2K50-2K51						
	Redrawn 1TA2-1TA5-1TA6						
	1TA7-1TA8-1TA9 devices	P.G.	15.12.99				
05	REDROW	P.G.	21.03.00				
07	REDROW		04/01				

MOTOR CAR BM

TRAILER CAR BP

TRAILER CAR BC

MOTOR CAR BM

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AREA
MILANO

ENTE
ING/PEV

DIS. NESCI

PROG.

CONTR.

RESP. UFF.

H.V. POWER SUPPLY
MAIN TRANSFORMERS

237VE05680C01

SOSTITUISCE
SOSTITUITO DA

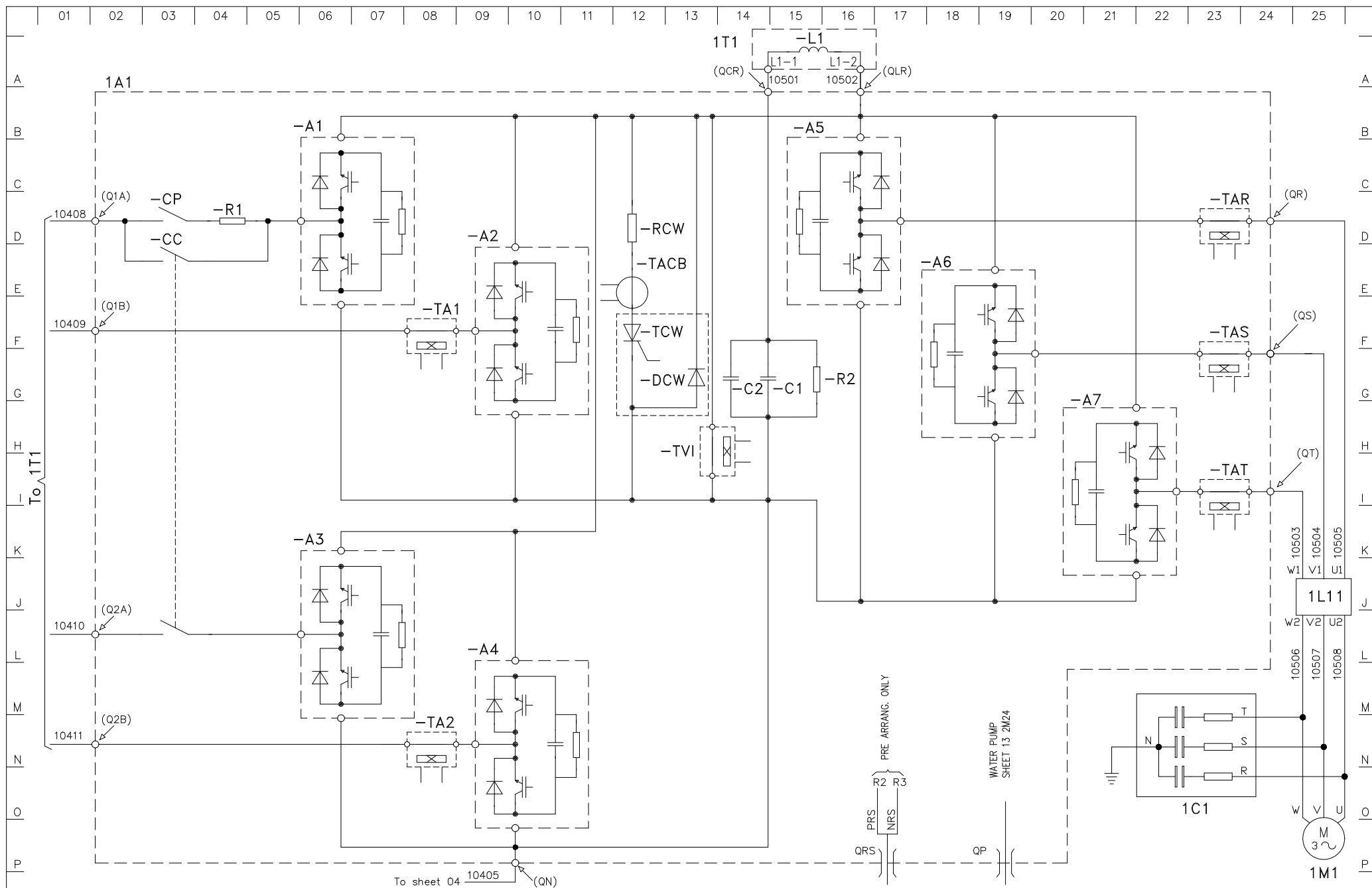
MOD.
07

F. 04
SEGUE F. 05



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSIONE	N.V.	20.10.98				
03	REDRAWING CONNECTIONS TO 1C1 DEVICE	P.G.	28.10.99				
04	REDROW	P.G.	21.03.00				
07	REDROW		04/01				

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AREA
MILANO
ENTE
ING/PEV
DIS. NESCI
PROG.
CONTR.
RESP. UFF.

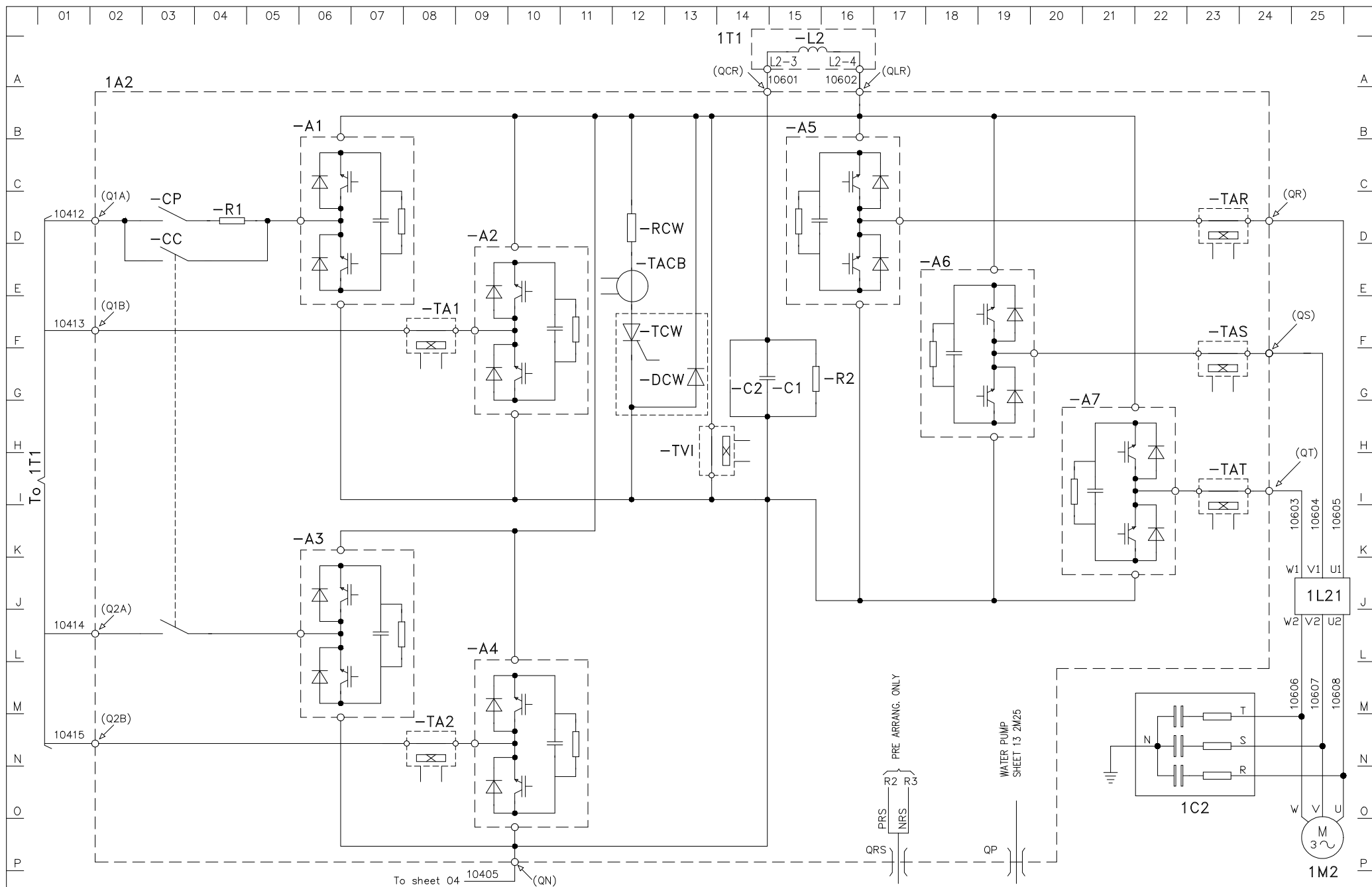
POWER CIRCUIT
MAIN CONVERTER 1

237VE05680C01
MOD. 07
SOSTITUISCE
SDSTITUITO DA
F. 05
SEQUE F. 06



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
03	REDRAWN CONNECTIONS TO 1C2 DEVICE	P.G.	28.10.99				
04	REDRAW	P.G.	21.03.00				
07	REDRAW		04/01				



AREA MILANO	DIS. NESCI
ENTE ING/PEV	PROG.
	CONTR.
	RESP. UFF.

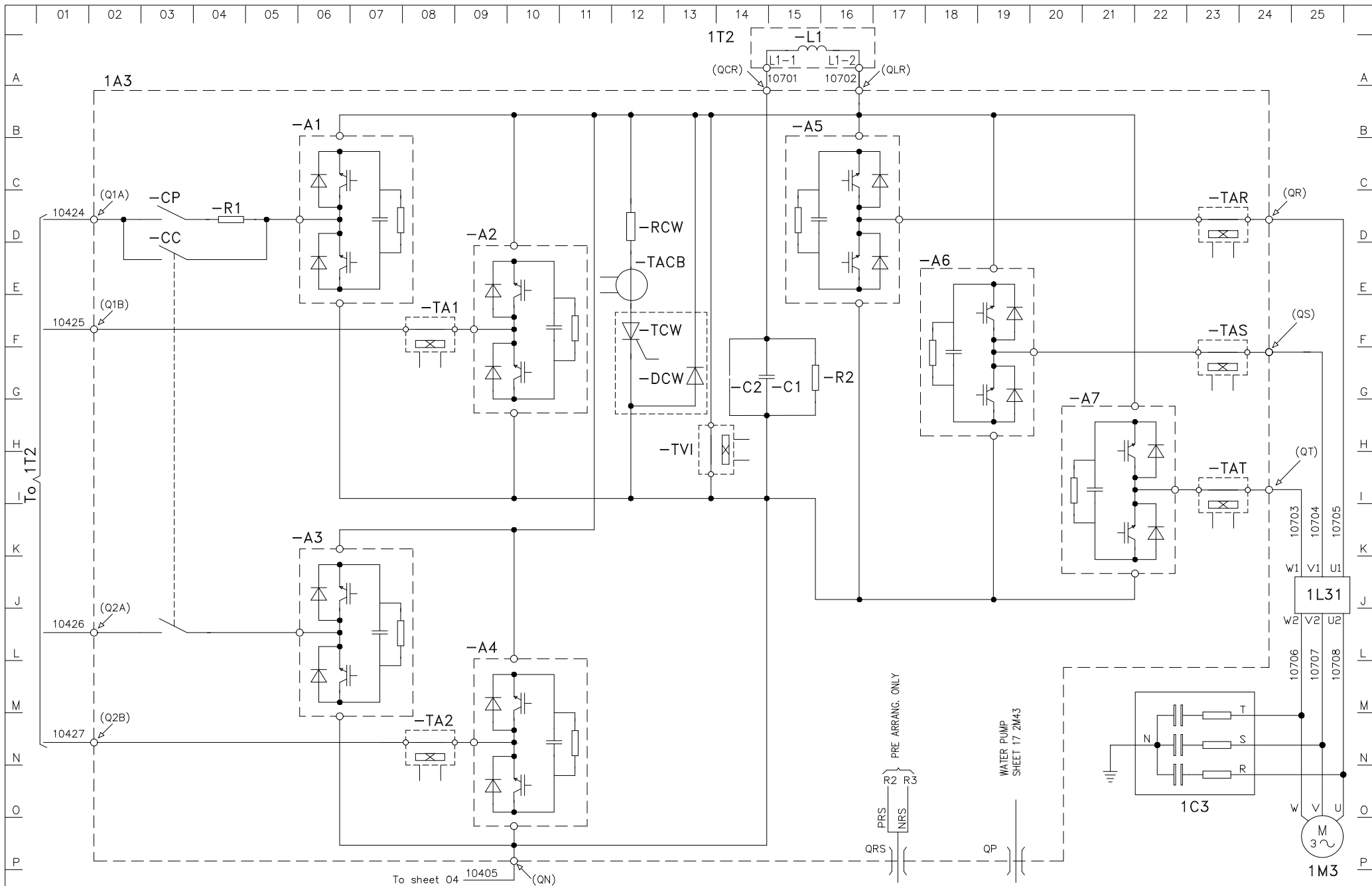
POWER CIRCUIT MAIN CONVERTER 2

237VE05680C01	MOD. 07
SOSTITUISCE	F. 06
SOSTITUITO DA	SEGUE F. 07



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
03	REDRAWN CONNECTIONS						
	TO 1C3 DEVICE	P.G.	28.10.99				
04	REDRAW	P.G.	21.03.00				
07	REDRAW		04/01				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA
MILANO

ENTE
ING/PEV

DIS. NESCI

PROG.

CONTR.

RESP. UFF.

POWER CIRCUIT
MAIN CONVERTER 3

237VE05680C01

MOD.

07

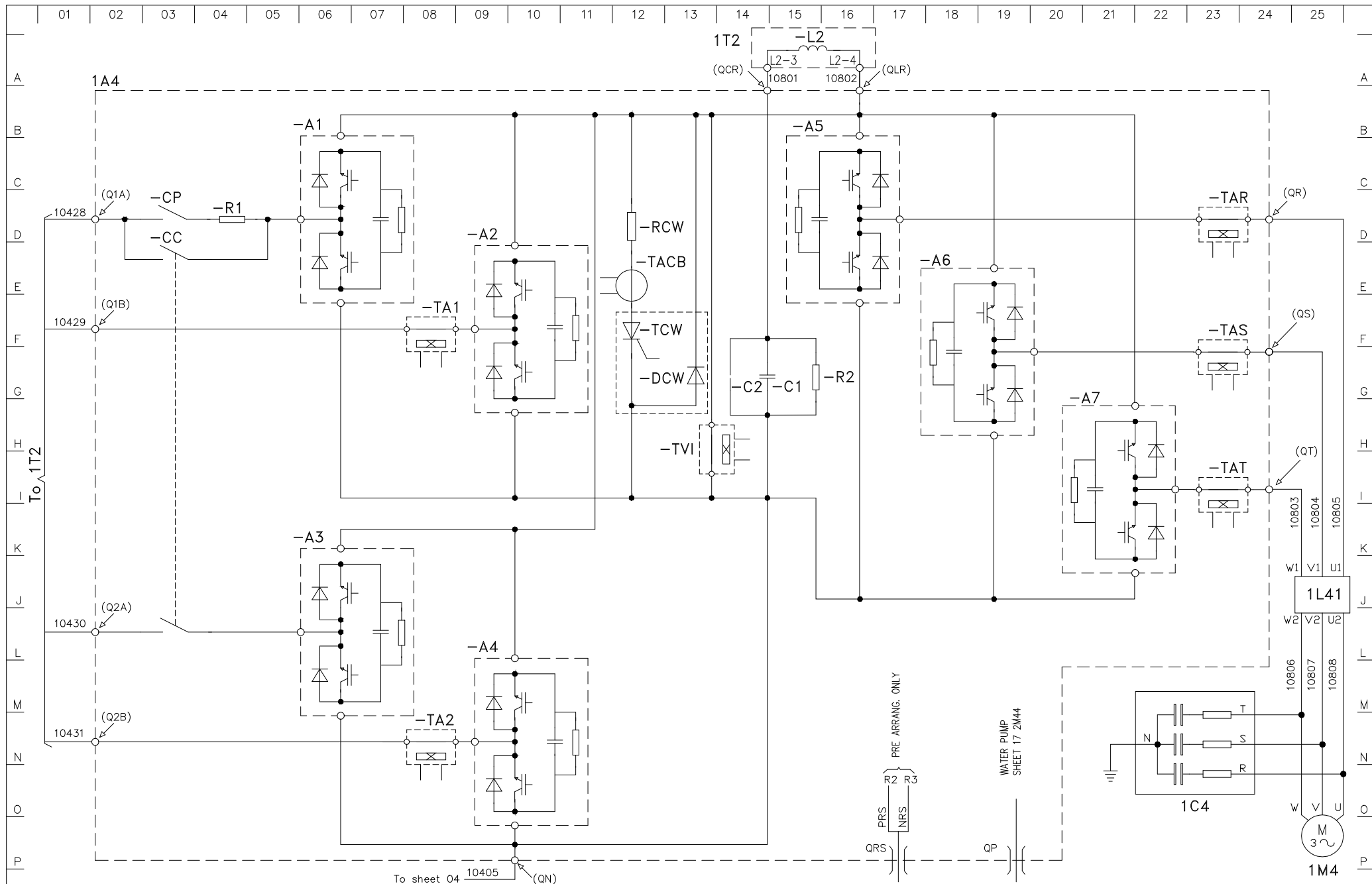
SOSTITUISCE
SOSTITUITO DA

F. 07
SEGUE F. 08



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
03	REDRAWN CONNECTIONS TO 1C4 DEVICE	P.G.	28.10.99				
04	REDRAW	P.G.	21.03.00				
05	REDRAW		04/01				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA
MILANO
ENTE
ING/PEV

DIS. NESCI
PROG.
CONTR.
RESP. UFF.

POWER CIRCUIT
MAIN CONVERTER 4

237VE05680C01

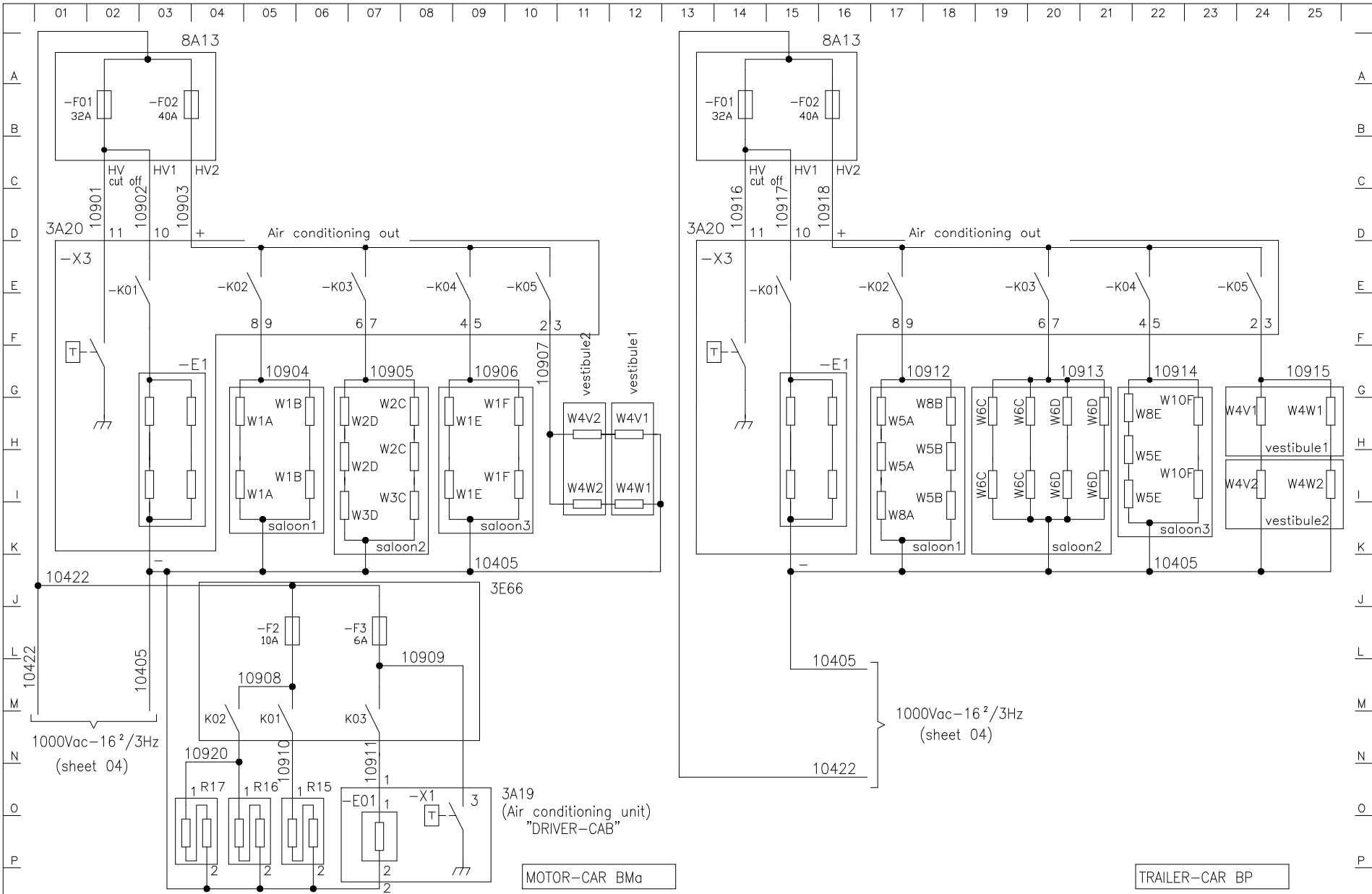
SOSTITUISCE
SOSTITUITO DA

MOD.
07

F. 08
SEGUE F. 09

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA
00	EMISSION	N.V.	20.10.98	08	Modif. 3A20-3E66		15/03/02
01	REDRAWN 8A04-R1&R5						
	8A06-R1&R5, INTRODUCED						
	CROW-BAR INTO 8A01	P.G.	15.12.99				
02	REDRAW	P.G.	21.03.00				
07	REDRAW		04/07				

MOTOR-CAR BMa

ANSALDO

Ansaldo Trasporti s.p.a.

TRAILER-CAR BP

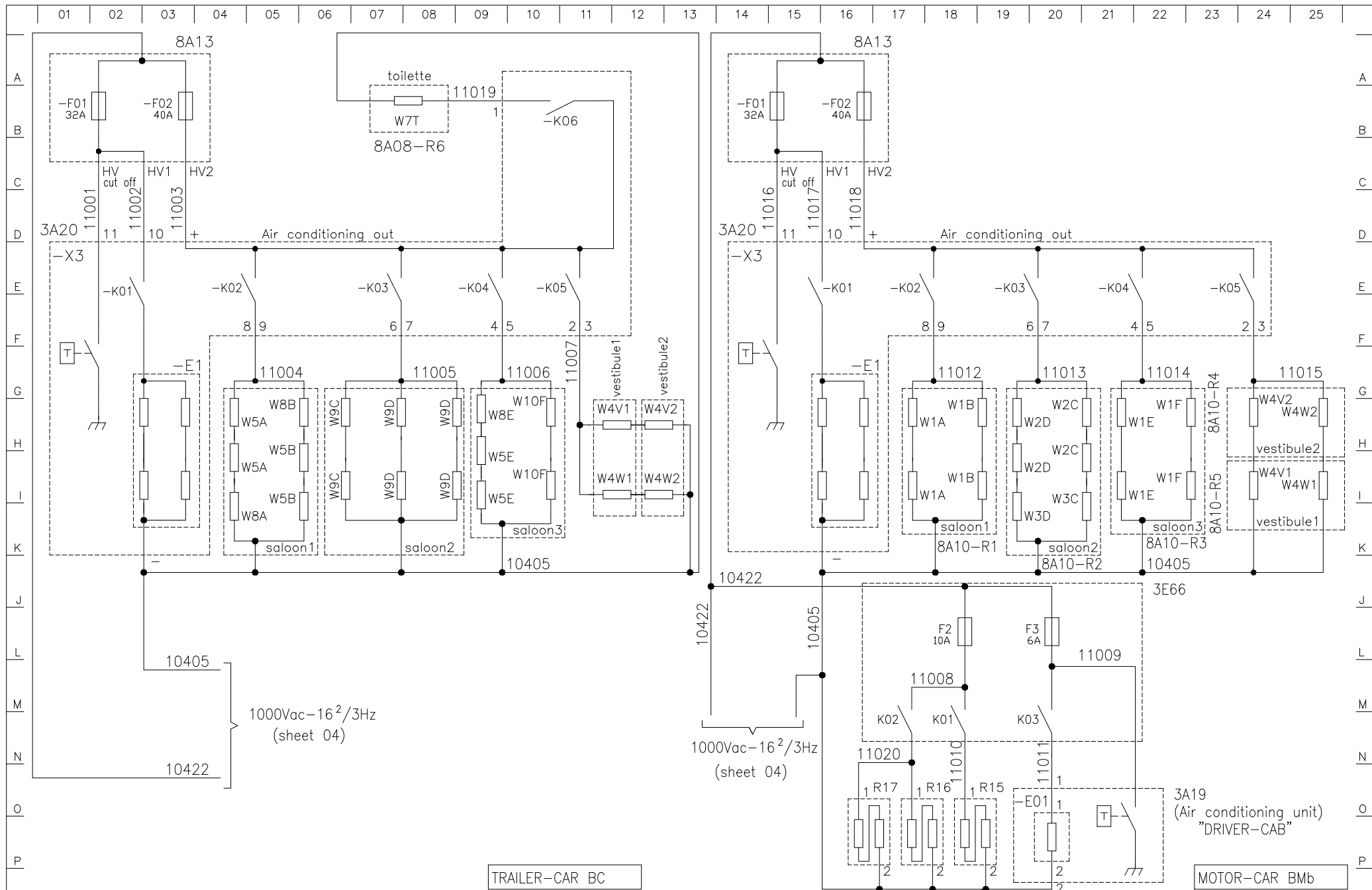
AREA	DIS. P. GAL
MILANO	
ENTE	PRDG.
ING/PEV	
	CONTR.
	RESP. UFF.

MOTOR-CAR BMa

TRAILER-CAR BP

LOADS 1000Vac-16²/3Hz

237VE05680C01	MOD.
	08
SOSTITUISCE	F. 09
SOSTITUITO DA	SEGUE F. 10



DIST.

INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98	08	Modif. 8A10-3E66		15.03.02
01	REDRAWN 8A08-R1&R6						
	8A10-R1&R5, INTRODUCED						
	CROW-BAR INTO 8A02	P.G.	15.12.99				
02	REDRAW	P.G.	21.03.00				
07	REDRAW		04/01				

TRAILER-CAR BC

ANSALDO

Ansaldo Trasporti s.p.a.

AREA
 MILANO
 ENTE
 ING/PEV

DIS. P. GAL
 PROG.
 CONTR.
 RESP. UFF.

MOTOR-CAR Bmb
 TRAILER-CAR BC
 LOADS 1000Vac-16²/3Hz

237VE05680C01

SOSTITUISCE
 SOSTITUITO DA

MOD. 08

F. 10
 SEQUE F. 11

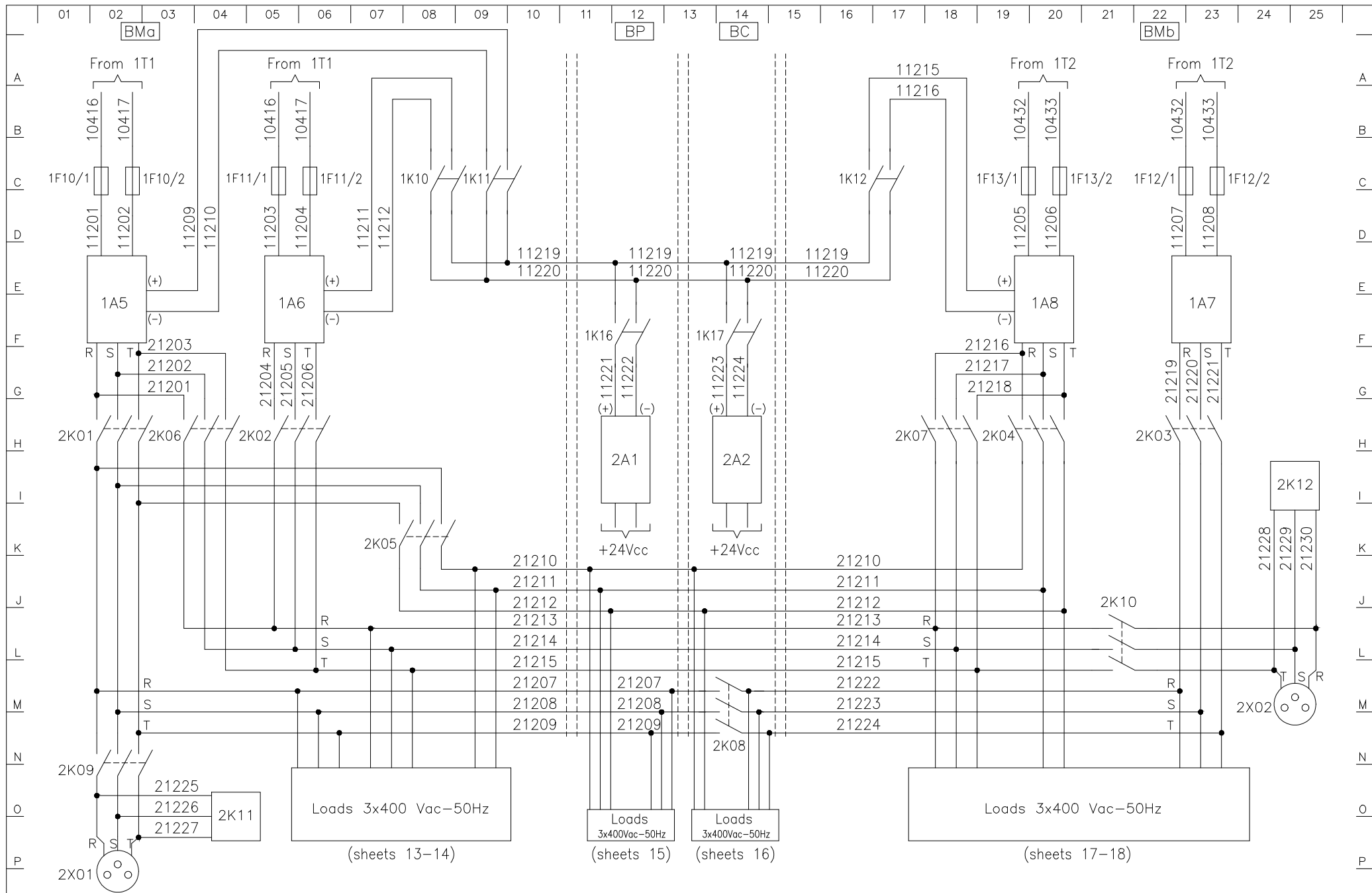
PT

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DIST.

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
A																										A			
B																										B			
C																										C			
D																										D			
E																										E			
F																										F			
G																										G			
H																										H			
I																										I			
K																										K			
J																										J			
L																										L			
M																										M			
N																										N			
O																										O			
P																										P			
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
INDICE	M O D I F I C H E			VISTO	DATA	INDICE	M O D I F I C H E			VISTO	DATA	AREA			DIS.					237VE05680C01			MOD. 07						
												ENTE			PROG.														
												ING/PEV			CONTR.														
															RESP. UFF.														
												<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>														SOSTITUISCE		F. 11	
																										SOSTITUITO DA		SEQUE F. 12	



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSIONE	N.V.	20.10.98	08	Modif. label 1A5		15.03.02
03	Eliminated 1F14,1F15,1F16,1F17 Charge1F10,1F11,1F12,1F13 type. Introduced 1K16-1K17		P.G. 28.10.99				
04	REDRAW		P.G. 21.03.00				
07	REDRAW		04/01				

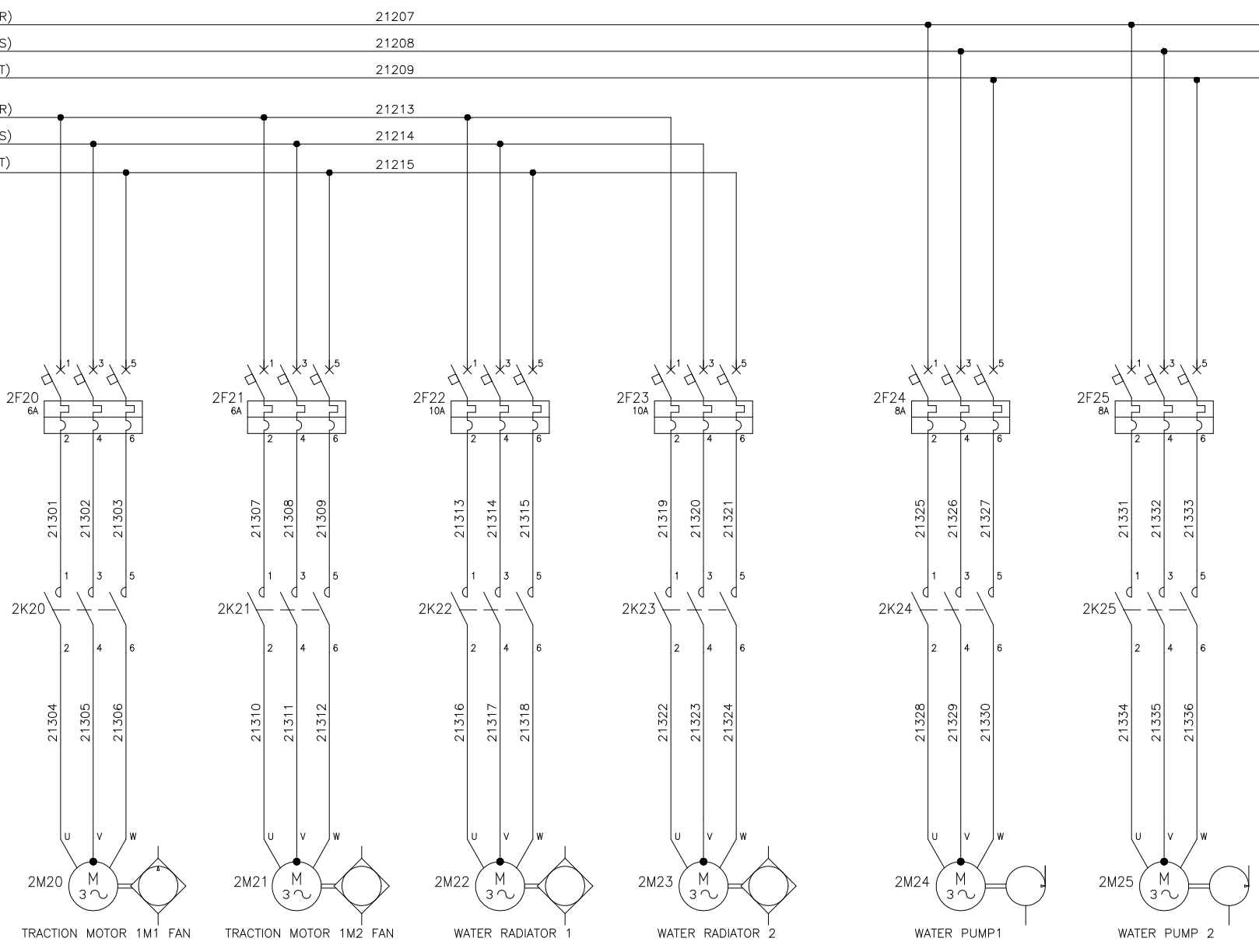
ANSALDO
Ansaldo Trasporti s.p.a.

AREA
MILANO
ENTE
ING/PEV
DIS. P. GAL
PROG.
CONTR.
RESP. UFF.

M.V. POWER SUPPLY
(3 X 400Vac-50 Hz)
237VE05680C01
MOD. 08
SOSTITUISCE
SOSTITUITO DA
F. 12
SEQUE F. 13

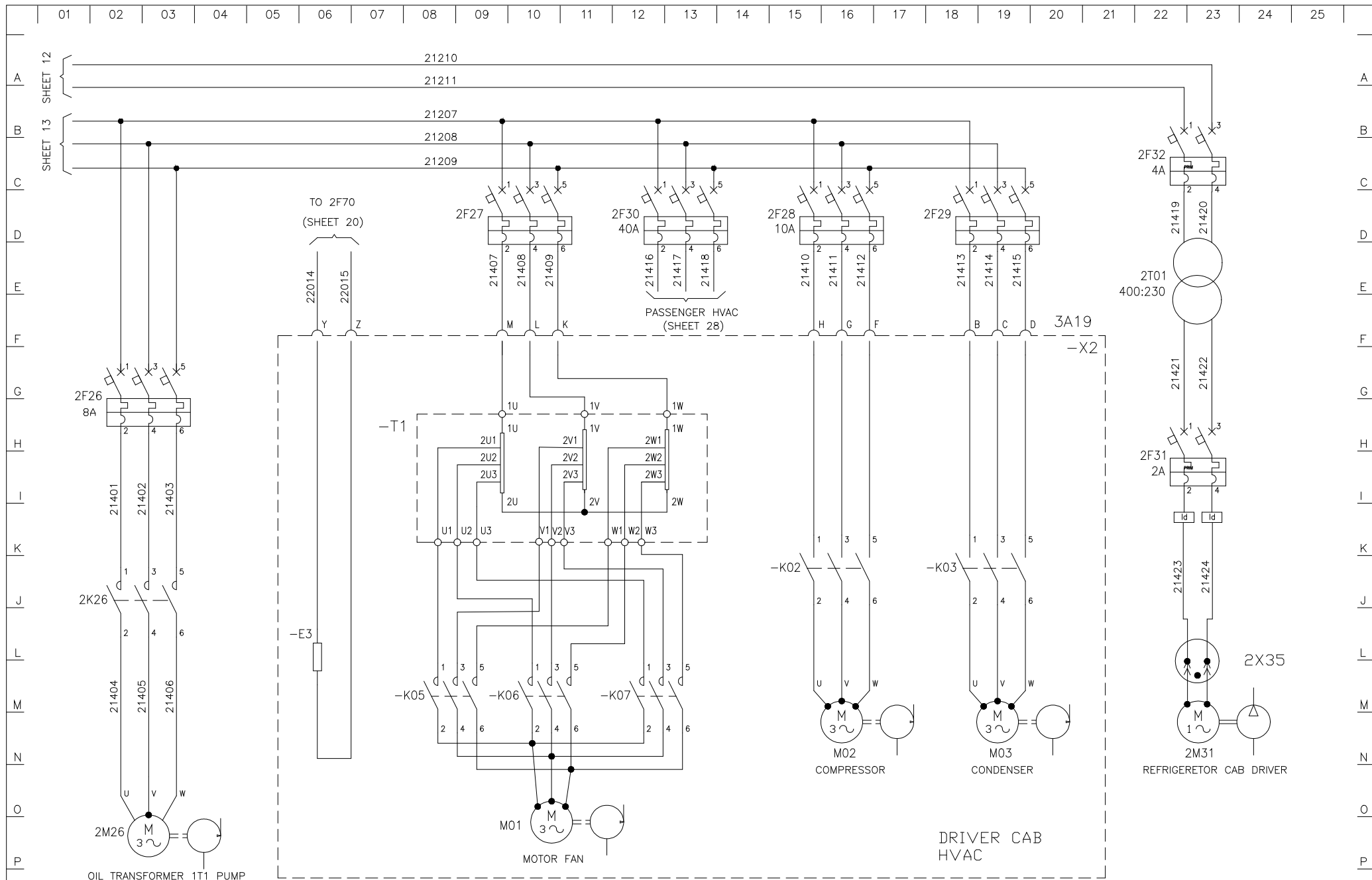
SHEET 12

SHEET 14



DIST.

INDICE			01	02	03	04	05	INDICE			06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
MODIFICHE					VISTO	DATA	INDICE	MODIFICHE					VISTO	DATA	ANSALDO					AREA MI		DIS. P. GALAFFU		13.12.96		MOTOR CAR BMa LOADS 3X400Vac – 50Hz					237VE05680C01		MOD. 08	
00	DRAFT ISSUE				D.F.	13.12.96														PROG.														
01	REVIEW				D.F.	30.01.97														CONTR.														
02	REVIEW				P.G.	21.03.00														RESP. UFF.														
07	REVIEW					04/01																												
08	Introd. label stoz					04/01									Ansaldo Trasporti s.p.a.					ISV/PQI								SOSTITUISCE		F. 13				
																										SOSTITUITO DA		SEQUE F. 14						



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	DRAFT ISSUE	D.F.	13.12.96	07	REVIEW		04/01
01	REVIEW	D.F.	30.01.97	08	MODIF. LABEL STOZ		03/02
02	REVIEW	D.F.	28.03.97	09	Aggiunto 2F32		06/03
03	REVIEW	D.F.	01.10.97				
04	REVIEW	D.F.	01.10.99				
05	REVIEW	P.G.	21.03.00				

ANSALDO
Ansaldo Trasporti s.p.a.

AREA
MI
ENTE
ISV/PQI
DIS. D. FERRARI
13.12.96
PROG.
CONTR.
RESP. UFF.

MOTOR CAR BMa
LOADS 3x400 Vac - 50 Hz
237VE05680C01
MOD.
09
SOSTITUISCE
SDSTITUITO DA
F. 14
SEQUE F. 15

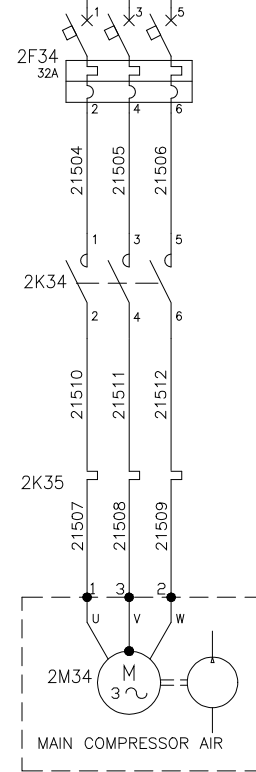
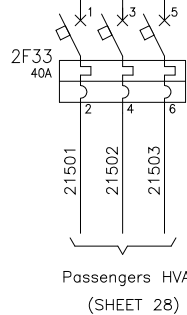
PP
 DISEGNO ESEGUITO CON
 Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
 vietato riprodurre o comunicare a terzi
 il contenuto del presente disegno

SHEET 12

(R) 21210
 (S) 21211
 (T) 21212

(R) 21207
 (S) 21208
 (T) 21209



DIST.

INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	DRAFT ISSUE	D.F.	13.12.96	08	Modif. label stoz		15.03.02
01	REVIEW	D.F.	30.01.97				
02	REVIEW	D.F.	28.03.97				
03	REVIEW	D.F.	01.10.97				
04	REVIEW	P.G.	21.03.00				
07	MOD 2M34		04/01				

ANSALDO
 Ansaldo Trasporti s.p.a.

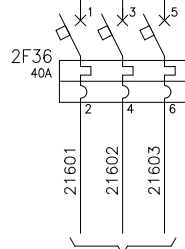
AREA	DIS. D. FERRARI	13.12.96
MI	PROG.	
ENTE	CONTR.	
ISV/PQI	RESP. UFF.	

TRAILER CAR BP		237VE05680C01	MOD. 08
LOADS 3x400 Vac - 50 Hz			
SOSTITUISCE		F.	15
SOSTITUITO DA		SEGUE F. 16	

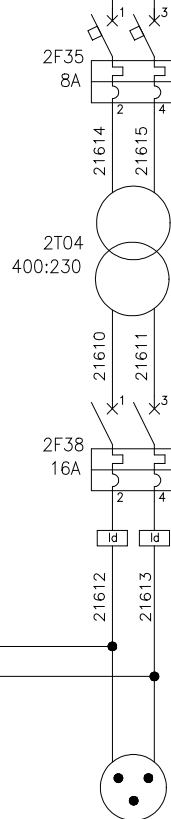
SHEET 12

(R) 21210
(T) 21212

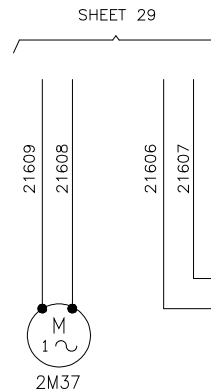
(R) 21222
(S) 21223
(T) 21224



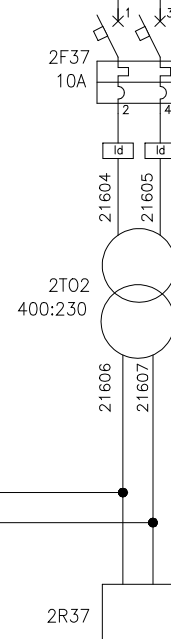
Passengers HVAC
(SHEET 29)



CATERING AREA SOCKETS



WC FAN



HAND DRYER

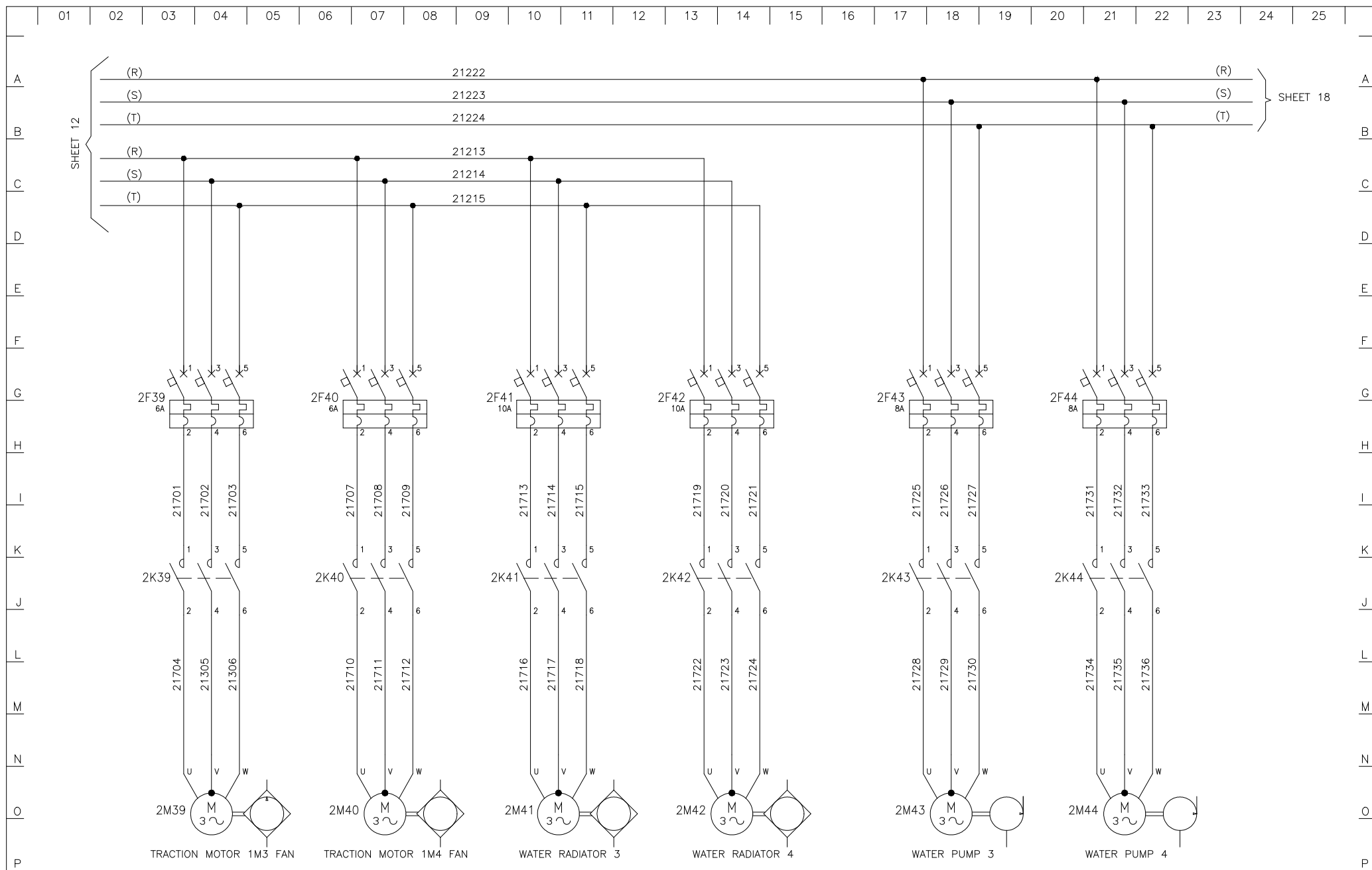
INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	DRAFT ISSUE	D.F.	13.12.96	08	MODIF. LABEL STOZ		15.03.02
01	REVIEW	D.F.	30.01.97				
02	REVIEW	D.F.	28.03.97				
03	REVIEW	D.F.	01.10.97				
04	REVIEW	P.G.	21.03.00				
07	REVIEW		04/01				

ANSALDO
 Ansaldo Trasporti s.p.a.

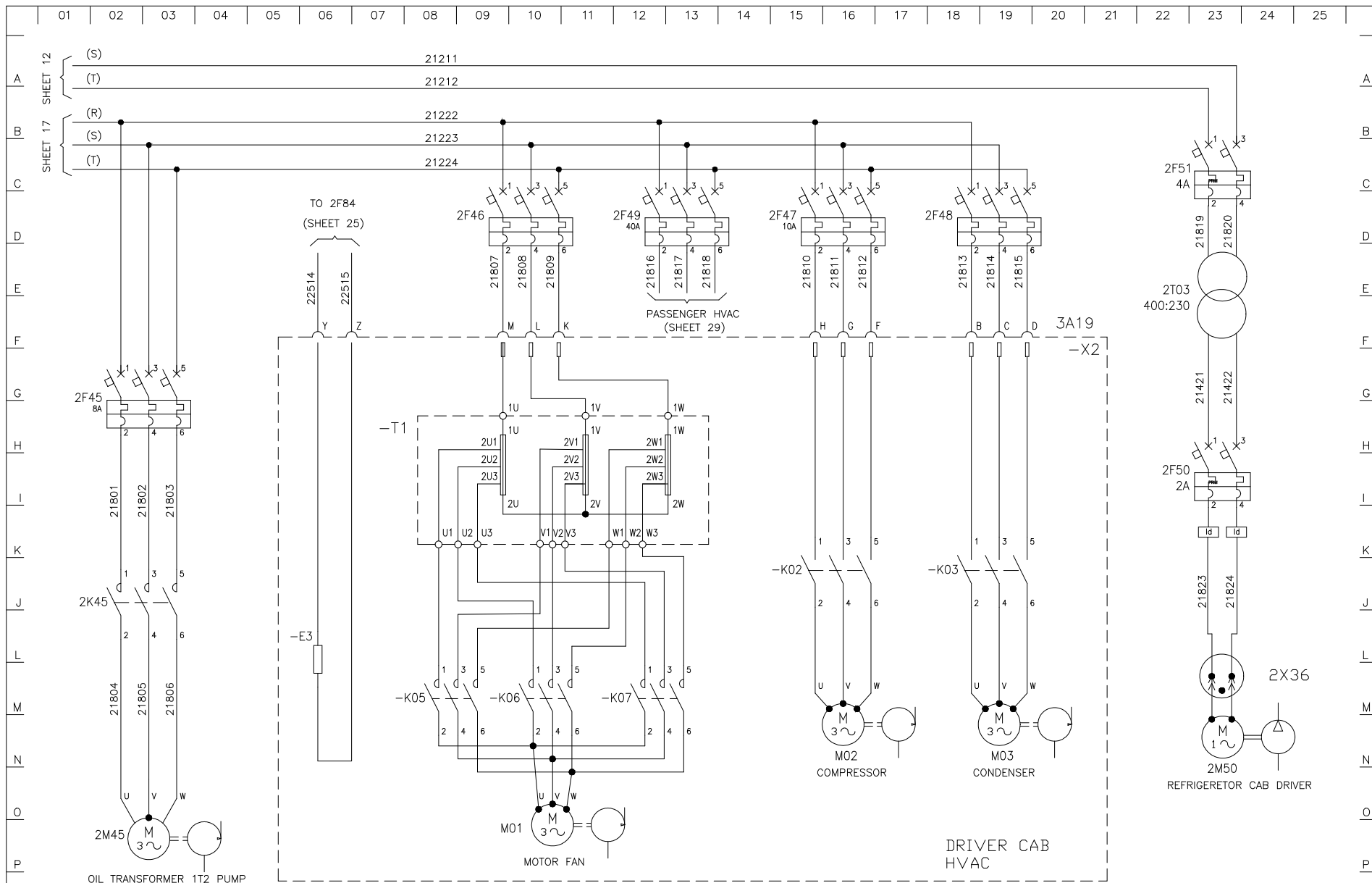
AREA	DIS. D. FERRARI	13.12.96
MI	PROG.	
ENTE	CONTR.	
ISV/PQI	RESP. UFF.	

TRAILER CAR BC	237VE05680C01	MOD.
LOADS 3x400 Vac - 50 Hz		08
SOSTITUISCE	F.	16
SOSTITUITO DA	SEQUE F. 17	

A termini di legge e' rigorosamente vietato riprodurre o comunicare a terzi il contenuto del presente disegno



	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
INDICE	M O D I F I C H E			VISTO	DATA	INDICE	M O D I F I C H E			VISTO	DATA	<div><div>ANSALDO</div><div>Ansaldo Trasporti s.p.a.</div></div>			AREA	DIS. P. GALAFFU	13.12.96	MOTOR CAR BMb				237VE05680C01		MOD. 08	
00	DRAFT ISSUE			D.F.	13.12.96						MI				PRDG.										
01	REVIEW			D.F.	30.01.97						ENTE				CONTR.										
02	REVIEW			P.G.	10.02.00						ISV/PQI				RESP. UFF.										
03	REVIEW			P.G.	21.03.00																				
07	REVIEW				04/01										LOADS 3X400Vac – 50Hz				SOSTITUISCE SOSTITUITO DA		F. 17 SEQUE F. 1				
08	MODIF. LABEL STOZ				03/02																				



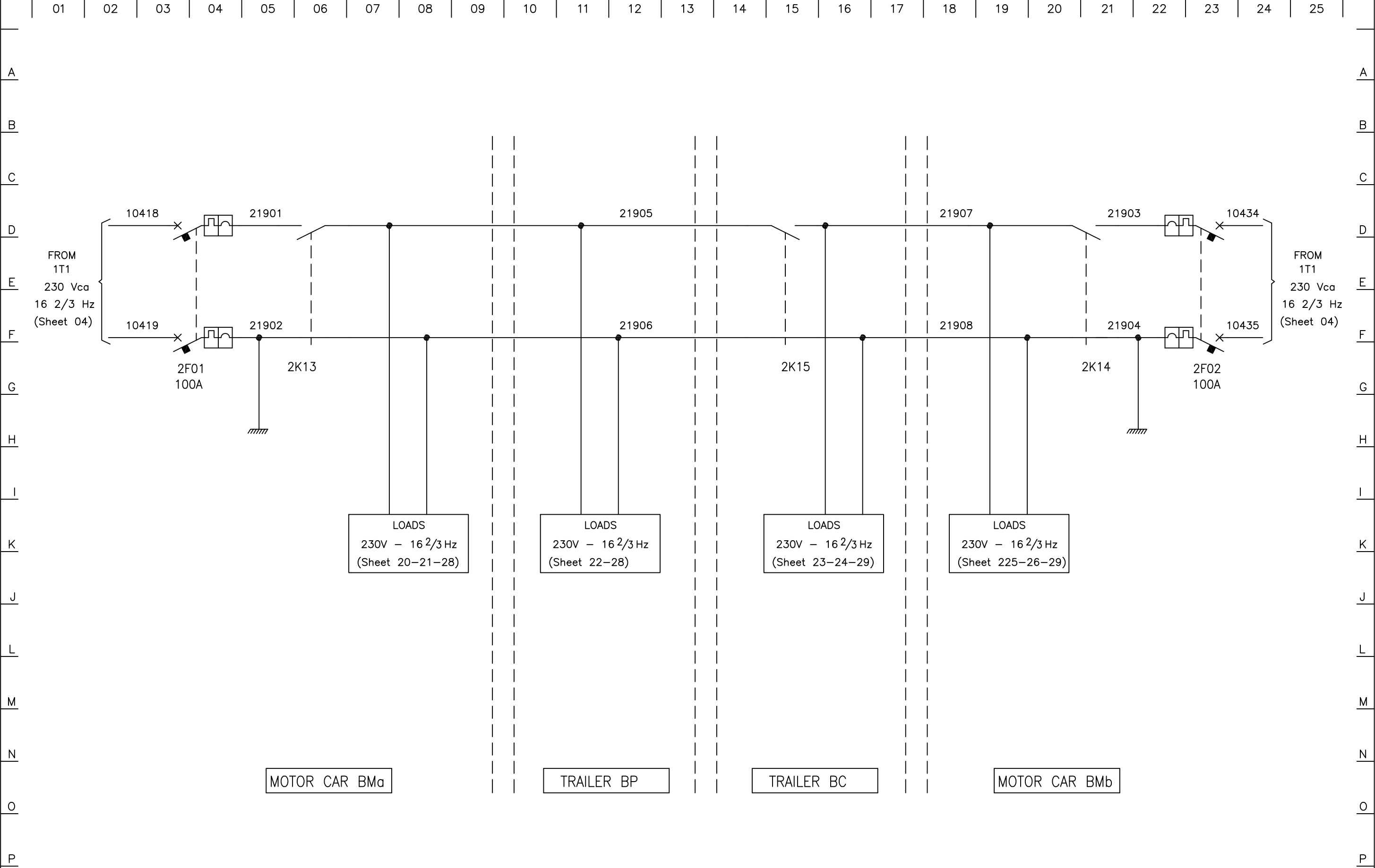
01			02			03			04			05			06			07			08			09			10			11			12			13			14			15			16			17			18			19			20			21			22			23			24			25		
INDICE M O D I F I C H E									VISTO			DATA			INDICE			M O D I F I C H E			VISTO			DATA			<div><div><div>ANSALDO</div><div>ANSALDO Trasporti s.p.a.</div></div><div><div>AREA MI</div><div>ENTE</div><div>ISV/PQI</div></div><div><div>DIS. D. FERRARI</div><div>PROG.</div><div>CONTR.</div><div>RESP. UFF.</div></div></div>																																															
00 DRAFT ISSUE									D.F. 13.12.96			07 REVIEW			04/01																																																											
01 REVIEW									D.F. 30.01.97			08 MODIF. LABEL STOZ			03/02																																																											
02 REVIEW									D.F. 28.03.97			09 Aggiunto 2F51			06/03																																																											
03 REVIEW									D.F. 01.10.97																																																																	
04 REVIEW									D.F. 01.10.99																																																																	
05 REVIEW									P.G. 21.03.00									MOTOR CAR Bmb									237VE05680C01									MOD. 09																																						
																		LOADS 3x400 Vac - 50 Hz																		SOSTITUISCE									F. 18																													
																																				SOSTITUITO DA									SEQUE F. 19																													

DISEGNO ESEGUITO CON

 Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
 vietato riprodurre o comunicare a terzi
 il contenuto del presente disegno

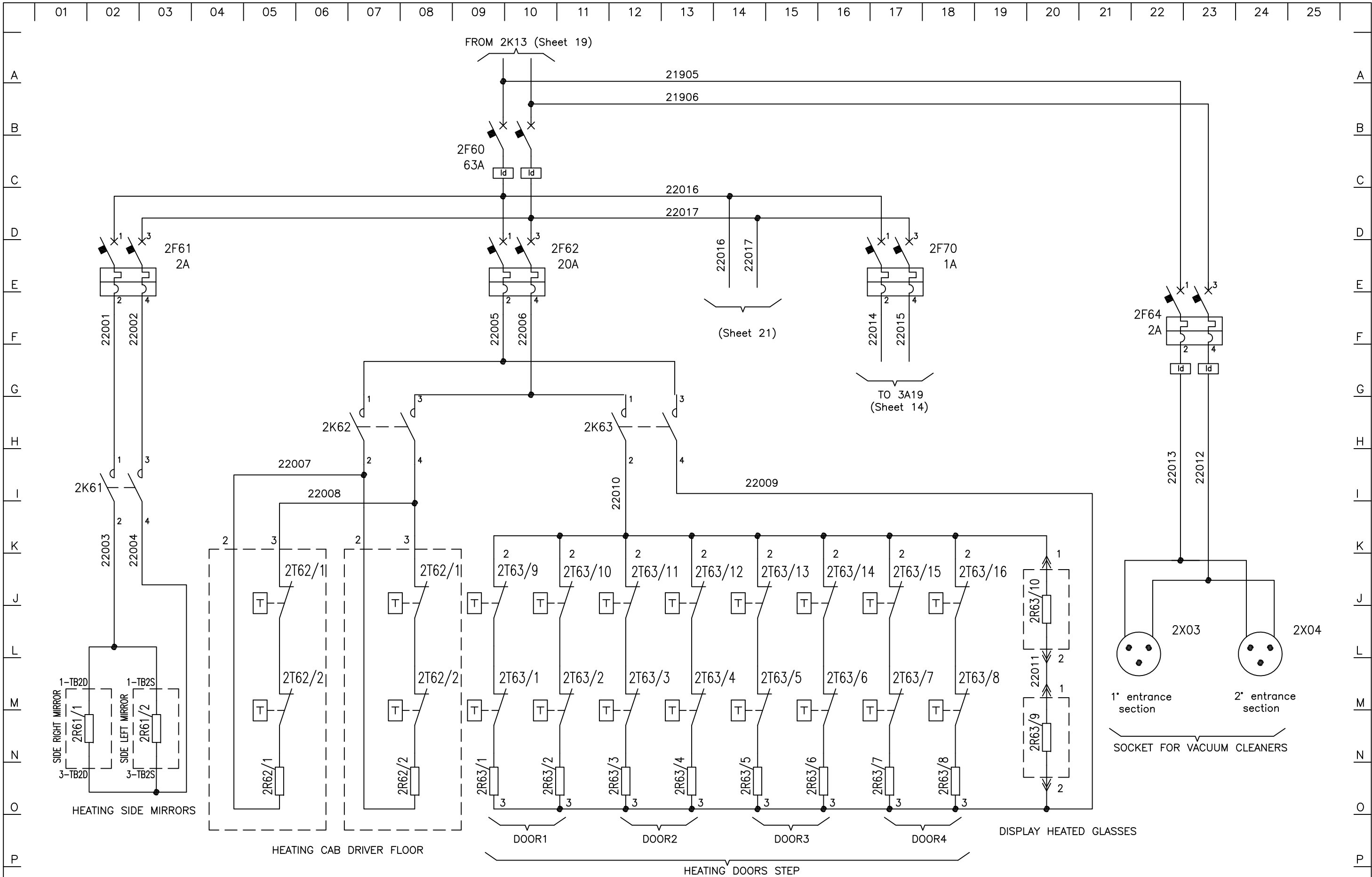
DIST.



INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	<div>ANSALENDO</div> <div>Ansaldo Trasporti s.p.a.</div>		AREA	DIS. D. FERRARI	13.12.96	<div>POWER SUPPLY</div> <div>230 Vac – 16 2/3 Hz</div>		237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96	09	Reviev		24.02.09			MI	PRDG.					
01	REVIEW	D.F.	30.01.97							ENTE ISV/PQI	CONTR.					
02	REVIEW	D.F.	28.03.97								RESP. UFF.					
03	REVIEW	P.G.	21.03.00													
07	REVIEW		04/01												SOSTITUISCE	F. 19
08	MODIF. LABEL ST0Z		03/02												SOSTITUITO DA	SEGUE F. 20

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. D. FERRARI	13.12.96	MOTOR CAR BMa	237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96	07	REVIEW		04/01	MI	PRDG.				
01	REVIEW	D.F.	30.01.97	08	MODIF. LABEL STOZ		03/02						
02	REVIEW	D.F.	28.03.97	09	MOD. STOZ 2F60-2F62-2F64		05/07						
03	REVIEW	D.F.	01.10.97	10	DELETED REV. 09		05/09						
04	REVIEW	D.F.	01.10.99										
05	REVIEW	P.G.	21.03.00										

ANSALENDO	ENTE	ISV/PQI	DIS. D. FERRARI	13.12.96	MOTOR CAR BMa	237VE05680C01	MOD.
Ansaldo Trasporti s.p.a.			PRDG.				
			CONTR.				
			RESP. UFF.				

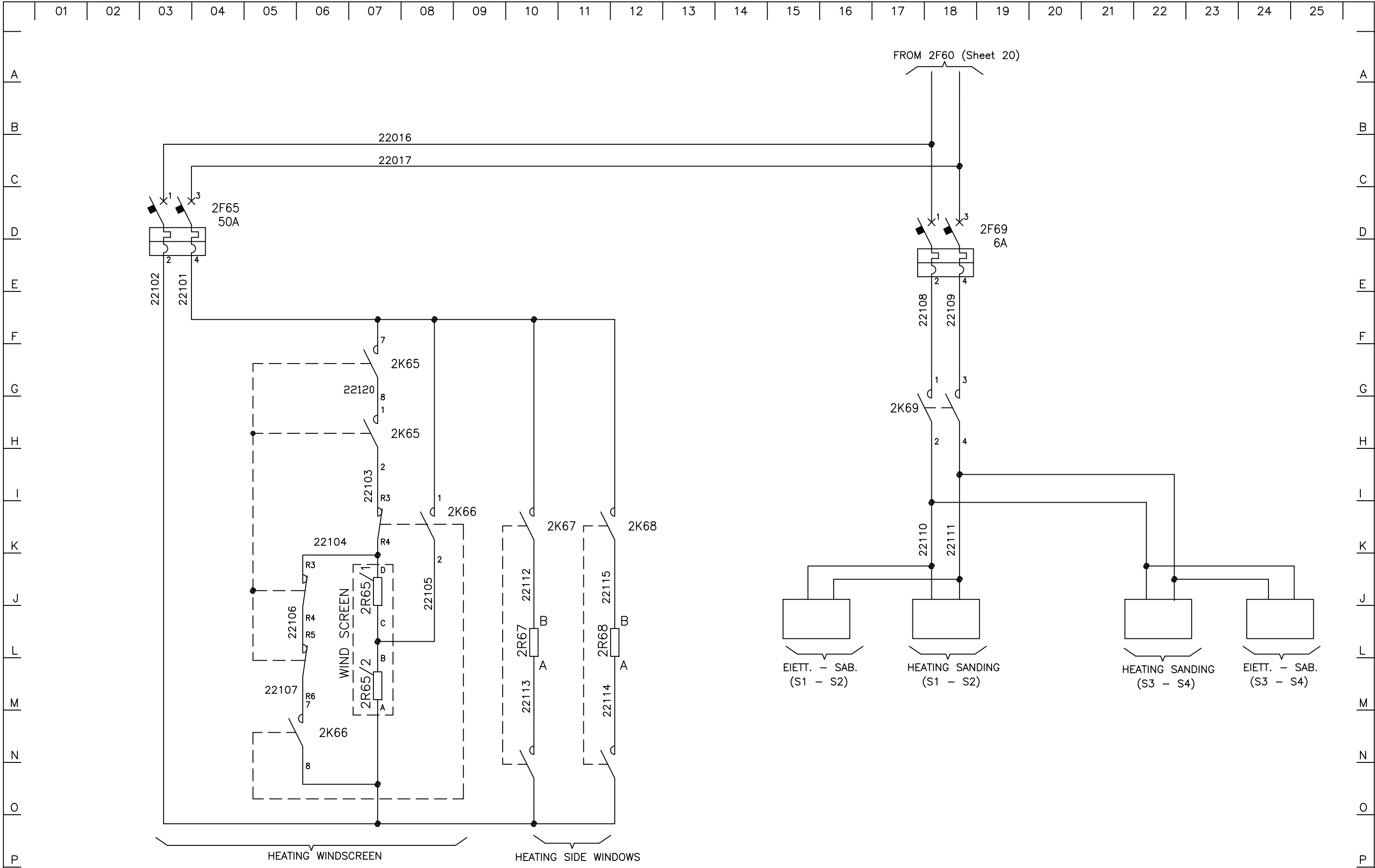
LOADS 230Vac-16 2/3 Hz	SOSTITUISCE	F. 20
	SOSTITUITO DA	SEGUE F. 21

CAI
DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DIST.

Mod. ATR 0354



01				02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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08	MODIF. LABEL STOZ					03/02																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

ANSALDO

Ansaldo Trasporti s.p.a.

AREA

MI

ENTE

ISV/PQI

DIS. D. FERRARI

13.12.96

PRDG.

CONTR.

RESP. UFF.

MOTOR CAR BMa

LOADS 230Vac-16 2/3 Hz

237VE05680C01

SOSTITUISCE

SOSTITUITO DA

MOD.

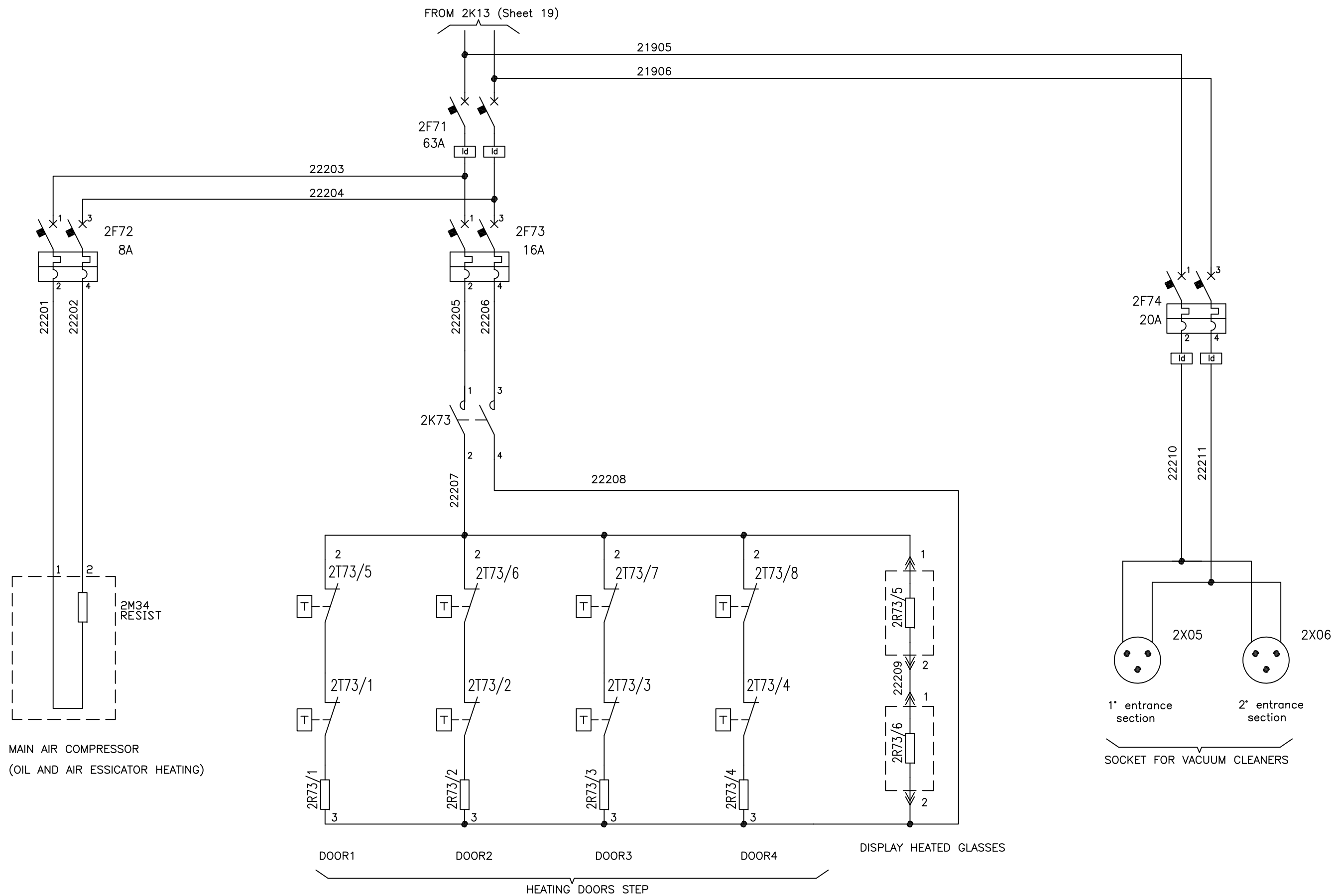
10

F. 21

SEGUE F. 22

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



MAIN AIR COMPRESSOR
(OIL AND AIR ESSICATOR HEATING)

DOOR1 DOOR2 DOOR3 DOOR4 DISPLAY HEATED GLASSES
HEATING DOORS STEP

1* entrance section 2* entrance section
SOCKET FOR VACUUM CLEANERS

DIST.

INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. D. FERRARI	13.12.96	TRAILER-CAR BP	237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96	07	REVIEW		04/01	MI	PRDG.				
01	REVIEW	D.F.	30.01.97	08	MODIF. LABEL STOZ		03/02						
02	REVIEW	D.F.	28.03.97	09	MODIF.STOZ 2f71-2f73-2f74		05/07						
03	REVIEW	D.F.	01.10.97	10	DELETED REV. 09		05/09						
04	REVIEW	D.F.	01.10.99										
05	REVIEW	P.G.	21.03.00										

ANSALENDO	AREA	DIS. D. FERRARI	13.12.96	TRAILER-CAR BP	237VE05680C01	MOD.
Ansaldo Trasporti s.p.a.	MI	PRDG.				
	ENTE	CONTR.				
	ISV/PQI	RESP. UFF.				

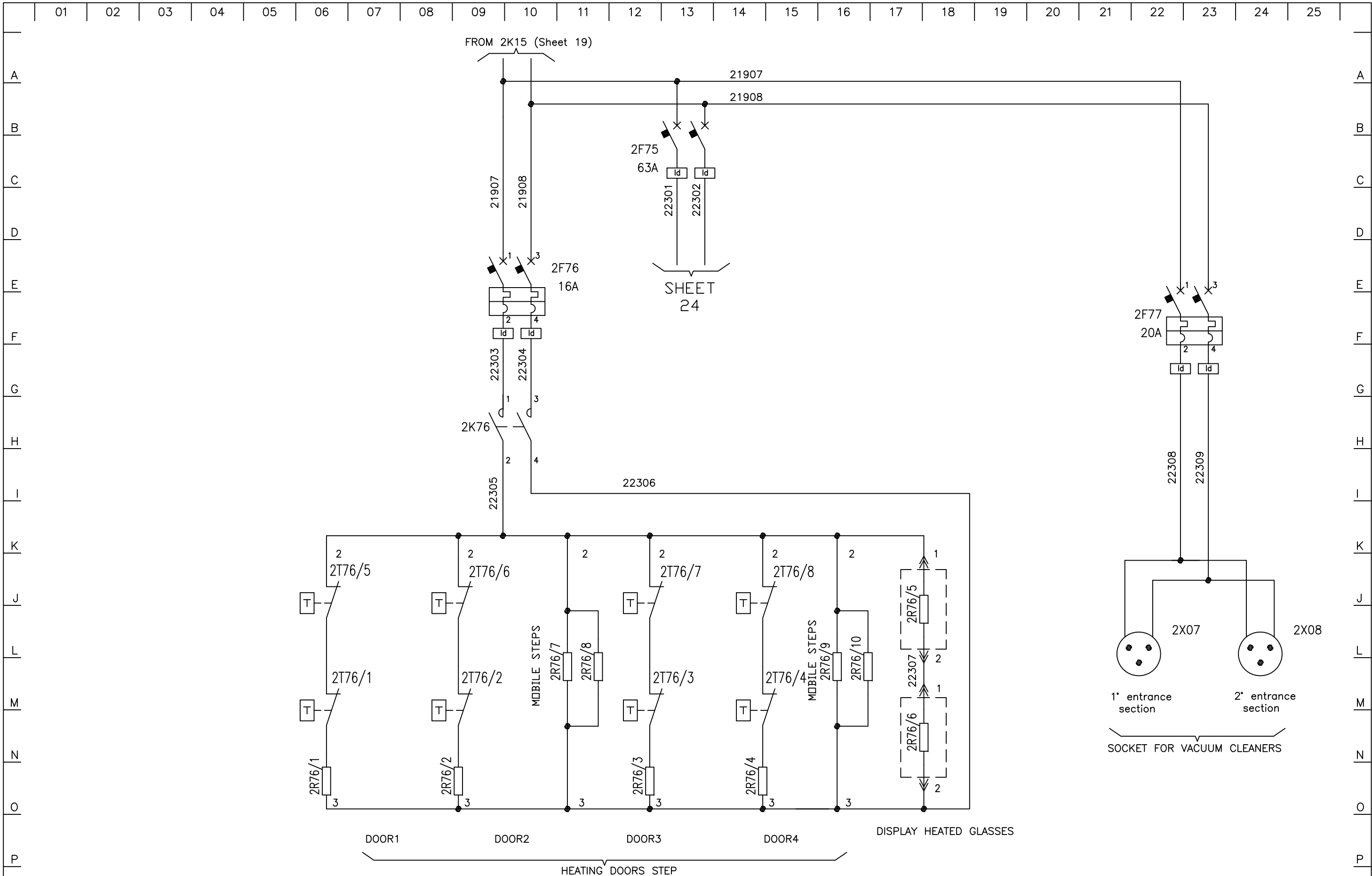
LOADS 230Vac-16 2/3 Hz	SOSTITUISCE	F. 22
	SOSTITUITO DA	SEGUE F. 23

CAI
DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno

DIST.

Mod. ATR 0354



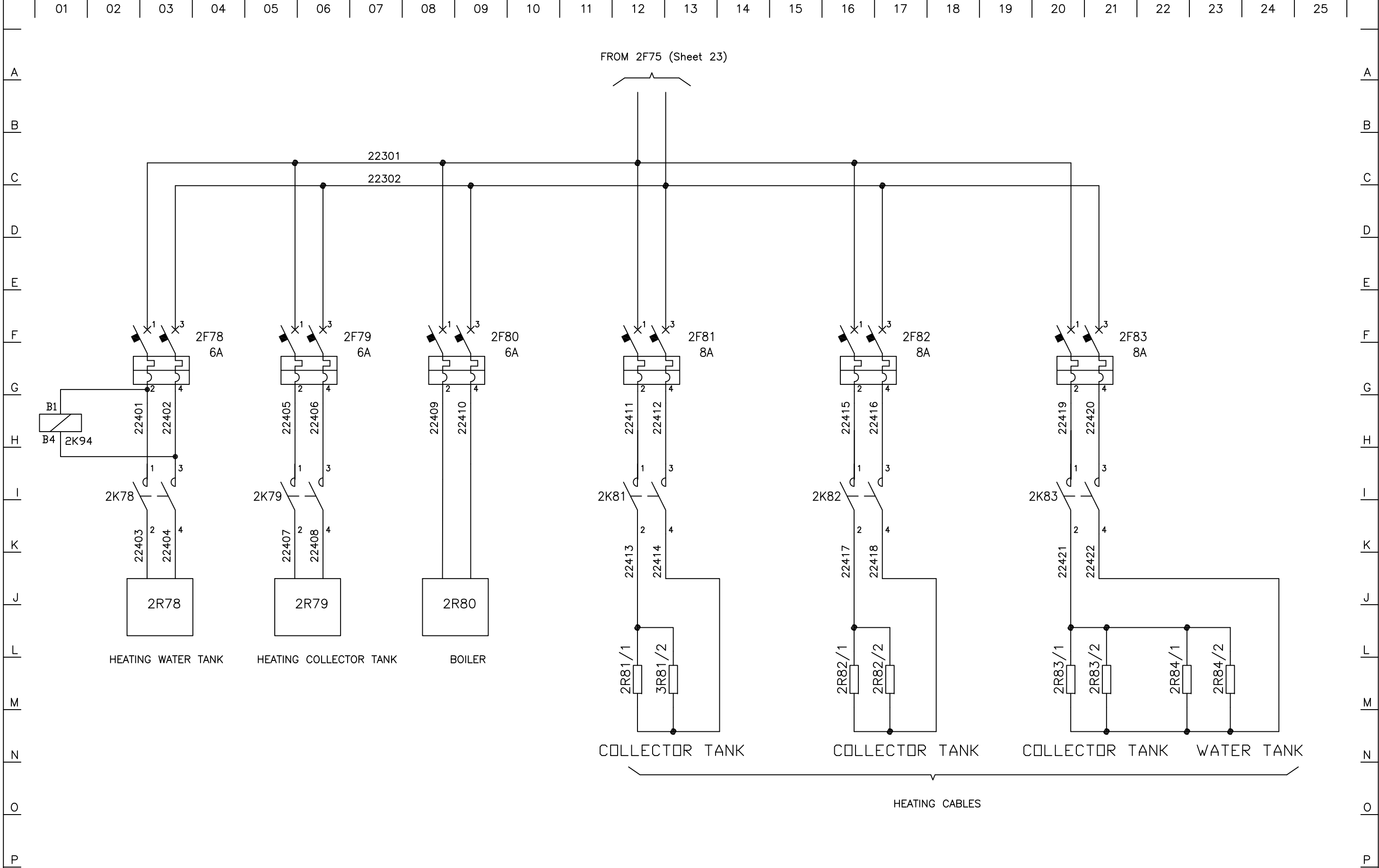
INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. D. FERRARI	13.12.96	TRAILER-CAR BC	237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96	08	MODIF. LABEL STOZ		15.03.02	MI	PRDG.				
01	REVIEW	D.F.	30.01.97	09	Mod. 2F75-2F76 (conn. and type)		14.03.06						
02	REVIEW	D.F.	28.03.97	10	REVISIONATO		29.05.07						
03	REVIEW	D.F.	01.10.97	11	DELETED REV. 09		18.05.09						
04	REVIEW	P.G.	21.03.00										
07	REVIEW		04/01										

ANSALENDO	AREA	DIS. D. FERRARI	13.12.96	TRAILER-CAR BC	237VE05680C01	MOD.
Ansaldo Trasporti s.p.a.	MI	PRDG.				
	ENTE	CONTR.				
	ISV/PQI	RESP. UFF.				

LOADS 230Vac-16 2/3 Hz	237VE05680C01	MOD.
		11
SOSTITUISCE	F.	23
SOSTITUITO DA	SEGUE F. 24	

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

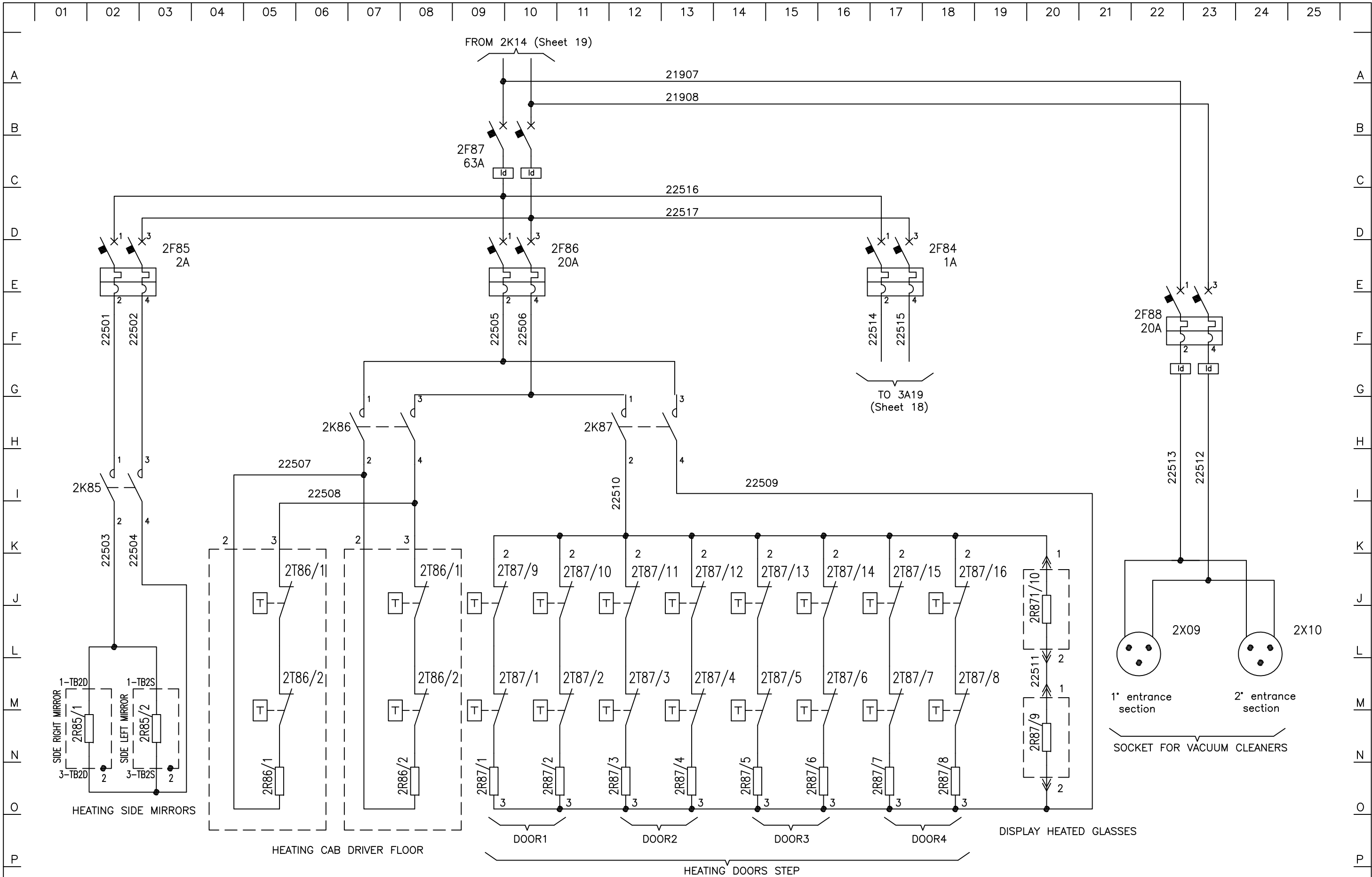
A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



01				02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25	
INDICE	MODIFICHE				VISTO	DATA	INDICE	MODIFICHE				VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>				AREA		DIS. D. FERRARI		13.12.96		<div>TRAILER-CAR BC</div> <div>LOADS 230Vac-16 2/3 Hz</div>						237VE05680C01				MOD. 11																	
00	DRAFT ISSUE				D.F.	13.12.96	09	MOD.2F78-79-80-81-82-83					05/07					MI		PRDG.																															
01	REVIEW				D.F.	30.01.97	10	AGG. 3K94					18/09/07					ENTE		CONTR.																															
02	REVIEW				D.F.	28.03.97	11	DELETED REV. 09 AND ADDED					05/09					ISV/PQI		RESP. UFF.																															
03	REVIEW				P.G.	21.03.00		2K94																																											
07	REVIEW					04/01																																													
08	MODIF. LABEL STOZ					03/02																																													

DISEGNO ESEGUITO CON
Non sono ammesse modifiche o variazioni manuali.

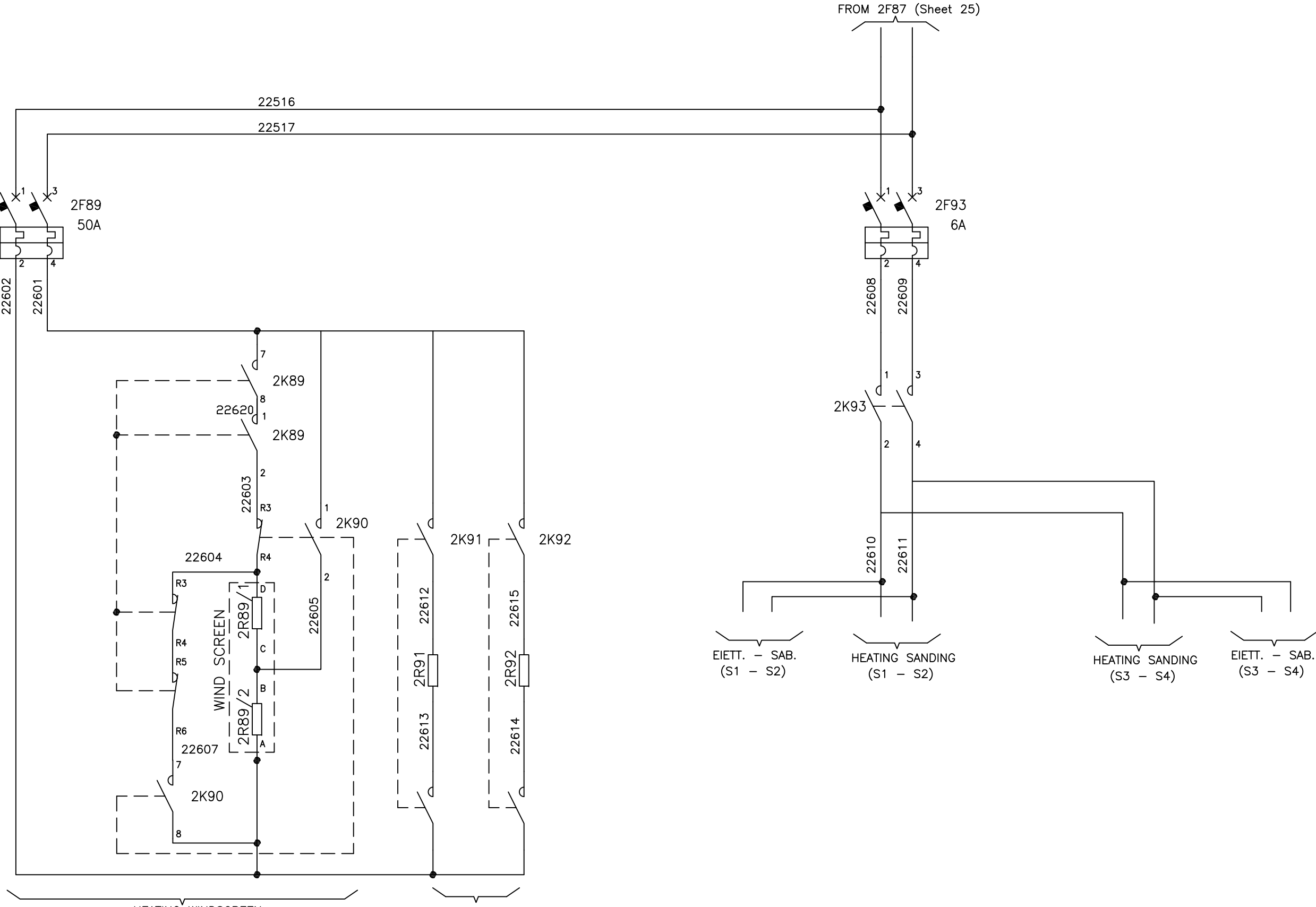
A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. D. FERRARI	13.12.96	MOTOR CAR BmB	237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96	07	REVIEW		04/01	MI	PRDG.				
01	REVIEW	D.F.	30.01.97	08	MODIF. LABEL STOZ		03/02						
02	REVIEW	D.F.	28.03.97	09	MOD. STOZ 2F60-2F62-2F64		05/07						
03	REVIEW	D.F.	01.10.97	10	DELETED REV. 09		05/09						
04	REVIEW	D.F.	01.10.99										
05	REVIEW	P.G.	21.03.00										

ANSALENDO	ENTE	ISV/PQI	DIS. D. FERRARI	13.12.96	MOTOR CAR BmB	237VE05680C01	MOD.
Ansaldo Trasporti s.p.a.			PRDG.				
			CONTR.				
			RESP. UFF.				

LOADS 230Vac-16 2/3 Hz	SOSTITUISCE	F. 25
	SOSTITUITO DA	SEGUE F. 26



	01	02	03	04	05	06	07	08	09		
INDEXE	M O D I F I C H E			VISTO	DATA	INDEXE	M O D I F I C H E			VISTO	DATA
00	DRAFT ISSUE			D.F.	13.12.96	09	MODIF. LABEL STOZ 2F65				29/05/07
01	REVIEW			D.F.	30.01.97	10	DELETED REV. 09				18/5/09
02	REVIEW			D.F.	28.03.97						
03	REVIEW			P.G.	21.03.00						
07	REVIEW				04/01						
08	MODIF. LABEL STOZ				03/02						

ANSALDO

Ansaldo Trasporti s.p.a

AREA

FNTF

DIS. D. FERRARI

PROG.

CONTR.

13 12 96

1

1

MOTOR CAR BMW

LOADS 230Vac-16 2/3 Hz

237VE05680C01

OD.

0

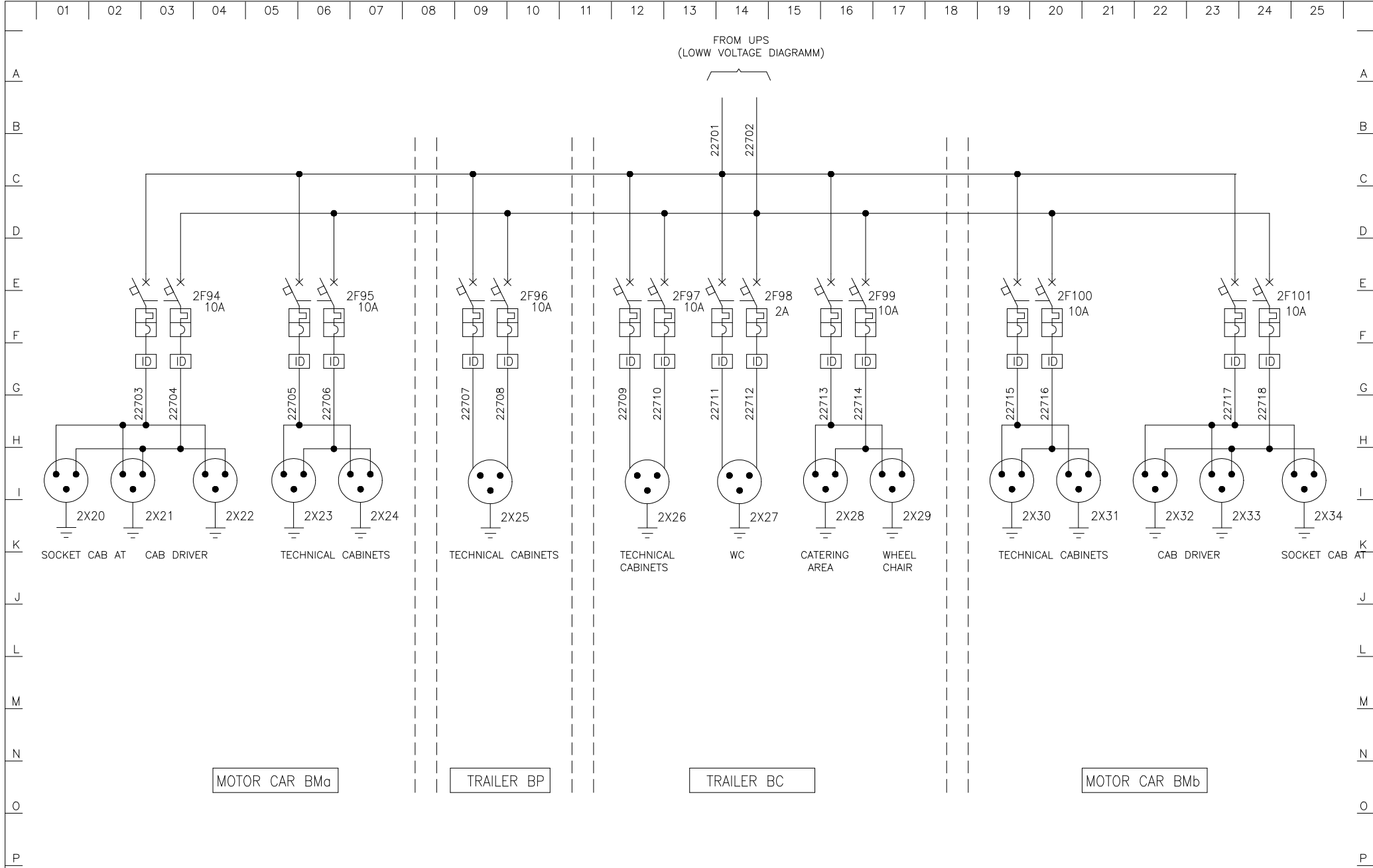
SOSTITUISCE

SOSTITUITO DA

F. 27

DISEGNO ESEGUITO CON
 Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
 vietato riprodurre o comunicare a terzi
 il contenuto del presente disegno



DIST.

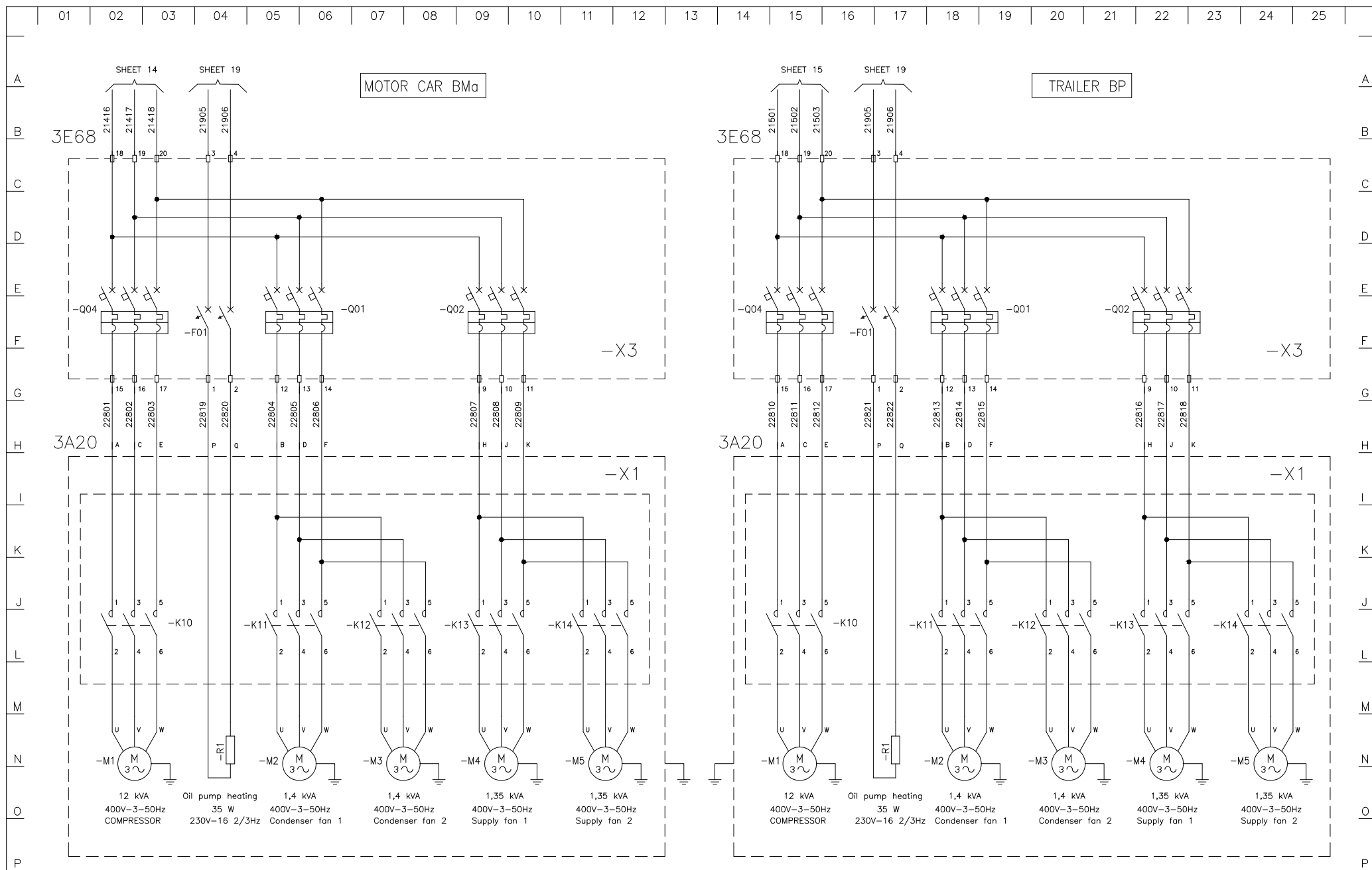
INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	DRAFT ISSUE	D.F.	13.12.96				
01	REVIEW	D.F.	30.01.97				
02	REVIEW	D.F.	28.03.97				
03	REVIEW	P.G.	21.03.00				
07	REVIEW		04/01				
08	MODIF LABEL STOZ		03/02				

ANSALDO
 Ansaldo Trasporti s.p.a.

AREA	DIS. D. FERRARI	13.12.96
MI	PROG.	
ENTE	CONTR.	
ISV/PQI	RESP. UFF.	

AUXILIARY SUPPLY	237VE05680C01	MOD. 08
230 Vac - 50 Hz	SOSTITUISCE	F. 27
	SOSTITUITO DA	SEGUE F. 28

A termini di legge e' rigorosamente vietato riprodurre o comunicare a terzi il contenuto del presente disegno

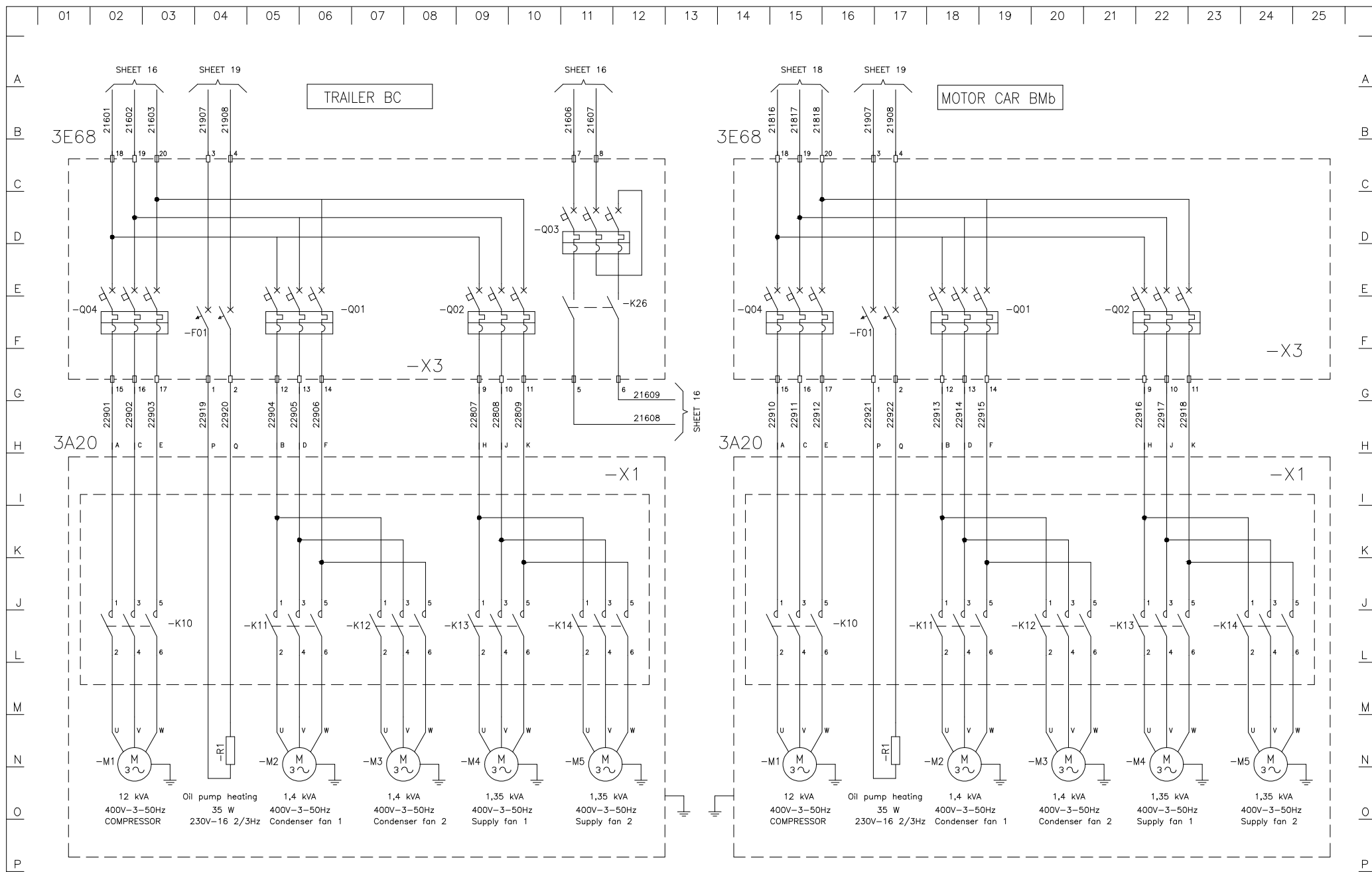


	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
INDICE	M O D I F I C H E			VISTO	DATA	INDICE	M O D I F I C H E			VISTO	DATA	<div><div>ANSALDO</div><div>Ansaldo Trasporti s.p.a.</div></div>			AREA MI	DIS. P. GALAFFU	13.12.96	MOTOR CAR BMa / TRAILER BP AIR CONDITIONING PASSENGERS SYSTEM				237VE05680C01		MOD. 07	
00	DRAFT ISSUE			D.F.	13.12.96							PRDG.													
01	REVIEW			D.F.	30.01.97																				
02	REVIEW			P.G.	21.03.00							ENTE		CONTR.											
07	REVIEW				04/01							ISV/PQI		RESP. UFF.											
																							SOSTITUISCE	F. 28	
																								SOSTITUITO DA	SEQUE F. 29



Disegno eseguito con
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente
vietato riprodurre o comunicare a terzi
il contenuto del presente disegno



INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA	AREA	DIS. P. GALAFFU	13.12.96	MOTOR CAR Bmb / TRAILER BC	237VE05680C01	MOD.
00	DRAFT ISSUE	D.F.	13.12.96					MI	PROG.		AIR CONDITIONING PASSENGERS		07
01	REVIEW	D.F.	30.01.97					ENTE	CONTR.		SYSTEM		
02	REVIEW	P.G.	21.03.00					ISV/PQI	RESP. UFF.				
07	REVIEW		04/01										

DIST.

ANSALDO

Ansaldo Trasporti s.p.a.

SOSTITUISCE

SOSTITUITO DA

F. 29

SEGUE F. 30



 DISEGNO ESEGUITO CON

 Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente

 vietato riprodurre o comunicare a terzi

 il contenuto del presente disegno

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
1	1A1	Traction converter 1	1700 V / 1200 A	231EE07928B	5		UNDER FRAME BMα
2	1A1-A1	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
3	1A1-A2	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
4	1A1-A3	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
5	1A1-A4	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
6	1A1-A5	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
7	1A1-A6	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
8	1A1-A7	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	5		INSIDE CONVERTER
9	1A1-C1	33.33Hz FILTER CAPACITOR	150uF 1050uF / 2700V	211EC22622B	5		INSIDE CONVERTER
10	1A1-CC	4Q CONVERTER CONTACTOR	LTHS 320 1000V/350A	211VK00900B0112	5		INSIDE CONVERTER
11	1A1-CP	PRECHARGING CONTACTOR	LTC 320 1000V/250A	211VK00901B01	5		INSIDE CONVERTER
12	1A1-CW	CROW-BAR ASSEMBLY		211EI22756B	5		INSIDE CONVERTER
13	1A1-R1	PRECHARGING RESISTOR	22 Ohm/1.5kW	211VR00902B01	5		INSIDE CONVERTER
14	1A1-R2	33.33Hz FILTER CAPACITOR PERMANENT RESISTOR	4 // 22kOhm 250V	231EE07935B	5		INSIDE CONVERTER
15	1A1-RCW	CROW-BAR RESISTOR	0.5 Ohm	211ER22700B	5		INSIDE CONVERTER
16	1A1-TA1	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	5		INSIDE CONVERTER
17	1A1-TA2	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	5		INSIDE CONVERTER
18	1A1-TACB	CURRENT TRANSFORMER		211ES00712B02	5		INSIDE CONVERTER
19	1A1-TAR	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	5		INSIDE CONVERTER
20	1A1-TAS	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	5		INSIDE CONVERTER
21	1A1-TAT	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	5		INSIDE CONVERTER
22							
23	1A1-TVI	VOLTAGE TRANSDUCER	CV 4-2500 2500Vpn - 100mA sec	211ET22766B	5		INSIDE CONVERTER
24	1A1-C2	33.33Hz FILTER CAPACITOR	1210 uF / 2700V	211EC22623B	5		INSIDE CONVERTER
25	1A2	Traction converter 2		231EE07928B	6		UNDER FRAME BMα
26	1A2-A1	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
27	1A2-A2	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
28	1A2-A3	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
29	1A2-A4	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
30	1A2-A5	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
31	1A2-A6	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER
32	1A2-A7	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	6		INSIDE CONVERTER

DIST.

INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. P. GAL						
00	EMISSION	N.V.	20.10.98					MILANO	PROG.						
01	REDRAWN	P.G.	30.06.99					ENTE	CONTR.						
02	UPDATED	P.G.	21.03.00					ING/PEV	RESP. UFF.						
07	UPDATED		04/01												

ANSALDO

Ansaldo Trasporti s.p.a.

AREA

 MILANO

 ENTE

 ING/PEV

DIS. P. GAL

 PROG.

 CONTR.

 RESP. UFF.

APPARATUS LIST

237VE05680C01

MOD.

 07

SOSTITUISCE

 SOSTITUITO DA

 F. 30

 SEQUE F. 31

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
33	1A2-C1	33.33Hz FILTER CAPACITOR	150uF 1050uF / 2700V	211EC22622B	6		INSIDE CONVERTER
34	1A2-CC	4Q CONVERTER CONTACTOR	LTHS 320 1000V/350A	211VK00900B0112	6		INSIDE CONVERTER
35	1A2-CP	PRECHARGING CONTACTOR	LTC 250 1000V/250A	211VK00901B01	6		INSIDE CONVERTER
36	1A2-CW	CROW-BAR ASSEMBLY		211EI22756B	6		INSIDE CONVERTER
37	1A2-R1	PRECHARGING RESISTOR	22 Ohm/1.5kW	211VR00902B01	6		INSIDE CONVERTER
38	1A2-R2	33.33Hz FILTER CAPACITOR PERMANENT RESISTOR	4 // 22kOhm 250V	231EE07935B	6		INSIDE CONVERTER
39	1A2-RCW	CROW-BAR RESISTOR	0.5 Ohm	211ER22700B	6		INSIDE CONVERTER
40	1A2-TA1	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	6		INSIDE CONVERTER
41	1A2-TA2	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	6		INSIDE CONVERTER
42	1A2-TACB	CURRENT TRANFORMER		211ES00712B02	6		INSIDE CONVERTER
43	1A2-TAR	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	6		INSIDE CONVERTER
44	1A2-TAS	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	6		INSIDE CONVERTER
45	1A2-TAT	CURRENT TRANSDUCER	LT 505-S 4000Apm - 1A sec	211ET22501B	6		INSIDE CONVERTER
46							
47	1A2-TVI	VOLTAGE TRANSDUCER	CV4-2500 2500Vpn - 100mA sec	211ET22766B	6		INSIDE CONVERTER
48	1A2-C2	33.33Hz FILTER CAPACITOR	1210 uF / 2700V	211EC22623B	6		INSIDE CONVERTER
49	1A3	TRACTION CONVERTER 3		231EE07928B	7		UNDER FRAME BMb
50	1A3-A1	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
51	1A3-A2	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
52	1A3-A3	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
53	1A3-A4	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
54	1A3-A5	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
55	1A3-A6	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
56	1A3-A7	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	7		INSIDE CONVERTER
57	1A3- C1	33.33Hz FILTER CAPACITOR	150uF 1050uF / 2700V	211EC22622B	7		INSIDE CONVERTER
58	1A3-CC	4Q CONVERTER CONTACTOR	LTHS 320 1000V/350A	211VK00900B0112	7		INSIDE CONVERTER
59	1A3-CP	PRECHARGING CONTACTOR	LTC 250 1000V/250A	211VK00901B01	7		INSIDE CONVERTER
60	1A3-CW	CROW-BAR ASSEMBLY		211EI22756B	7		INSIDE CONVERTER
61	1A3-R1	PRECHARGING RESISTOR	22 Ohm/1.5kW	211VR00902B01	7		INSIDE CONVERTER
62	1A3-R2	33.33Hz FILTER CAPACITOR PERMANENT RESISTOR	4 // 22kOhm 250V	231EE07935B	7		INSIDE CONVERTER
63	1A3-RCW	CROW-BAR RESISTOR	0.5 Ohm	211ER22700B	7		INSIDE CONVERTER
64	1A3-TA1	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	7		INSIDE CONVERTER

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
65	1A3-TA2	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	7		INSIDE CONVERTER
66	1A3-TACB	CURRENT TRANFORMER		211ES00712B02	7		INSIDE CONVERTER
67	1A3-TAR	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	7		INSIDE CONVERTER
68	1A3-TAS	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	7		INSIDE CONVERTER
69	1A3-TAT	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	7		INSIDE CONVERTER
70							
71	1A3-TVI	VOLTAGE TRANSDUCER	CV4-2500 2500Vpn - 100mA sec	211ET22766B	7		INSIDE CONVERTER
72	1A3-C2	33.33Hz FILTER CAPACITOR	1210 uF / 2700V	211EC22623B	7		INSIDE CONVERTER
73	1A4	TRACTION CONVERTER 3		231EE07928B	8		UNDER FRAME BMb
74	1A4-A1	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
75	1A4-A2	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
76	1A4-A3	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
77	1A4-A4	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
78	1A4-A5	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
79	1A4-A6	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
80	1A4-A7	PHASE ASSEMBLY	1700 V / 1200 A	231EE07947B	8		INSIDE CONVERTER
81	1A4- C1	33.33Hz FILTER CAPACITOR	150uF 1050uF / 2700V	211EC22622B	8		INSIDE CONVERTER
82	1A4-CC	4Q CONVERTER CONTACTOR	LTHS 320 1000V/350A	211VK00900B0112	8		INSIDE CONVERTER
83	1A4-CP	PRECHARGING CONTACTOR	LTC 250 1000V/250A	211VK00901B01	8		INSIDE CONVERTER
84	1A4-CW	CROW-BAR ASSEMBLY		211EI22756B	8		INSIDE CONVERTER
85	1A4-R1	PRECHARGING RESISTOR	22 Ohm/1.5kW	211VR00902B01	8		INSIDE CONVERTER
86	1A4-R2	33.33Hz FILTER CAPACITOR PERMANENT RESISTOR	4 // 22kOhm 250V	231EE07935B	8		INSIDE CONVERTER
87	1A4-RCW	CROW-BAR RESISTOR	0.5 Ohm	211ER22700B	8		INSIDE CONVERTER
88	1A4-TA1	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	8		INSIDE CONVERTER
89	1A4-TA2	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec		8		INSIDE CONVERTER
90	1A4-TACB	CURRENT TRANFORMER		211ES00712B02	8		INSIDE CONVERTER
91	1A4-TAR	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	8		INSIDE CONVERTER
92	1A4-TAS	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	8		INSIDE CONVERTER
93	1A4-TAT	CURRENT TRANSDUCER	LT 505-S 4000Apr - 1A sec	211ET22501B	8		INSIDE CONVERTER
94							
95	1A4-TVI	VOLTAGE TRANSDUCER	CV4-2500 2500Vpn - 100mA sec	211ET22766B	8		INSIDE CONVERTER
96	1A4-C2	33.33Hz FILTER CAPACITOR	1210 uF / 2700V	211EC22623B	8		INSIDE CONVERTER

DIST.	INDICE	MODIFICHE		VISTO	DATA	INDICE	MODIFICHE		VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>	AREA MILANO ENTE ING/PEV	DIS. P. GAL		APPARATUS LIST	237VE05680C01		MOD. 07
	00	EMISSION		N.V.	20.10.98								PROG.			SOSTITUISCE	F. 32	
	01	REDRAWN		P.C.	21.03.00								CONTR.					
	07	REDRAWN			04/01								RESP. UFF.					

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
97	1A5	AUXILIARY STATIC CONVERTER 1		211EA22661B	12		INSIDE BMa
98	1A6	AUXILIARY STATIC CONVERTER 1		211EA22661B	12		INSIDE BMa
99	1A7	AUXILIARY STATIC CONVERTER 1		211EA22661B	12		INSIDE BMb
100	1A8	AUXILIARY STATIC CONVERTER 1		211EA22661B	12		INSIDE BMB
101	1C1	MOTOR FILTER CAPACITORS		231EE08165B	5		MOTOR TRACTION
102	1C2	MOTOR FILTER CAPACITORS		231EE08165B	6		MOTOR TRACTION
103	1C3	MOTOR FILTER CAPACITORS		231EE08165B	7		MOTOR TRACTION
104	1C4	MOTOR FILTER CAPACITORS		231EE08165B	8		MOTOR TRACTION
105	1F1	LIGHTNING ARRESTOR	18 kV 16 2/3 10kA 8/20 uS	3ECE405204	4		IMPERIALE BP
106	1F2	LIGHTNING ARRESTOR	18 kV 16 2/3 10kA 8/20 uS	3ECE405204	4		IMPERIALE BP
107	1F10/1-2	1A05 DOUBLE FUSIBLE	690 V - 630 A	211VF00990B01	12		QMT -BMa
108	1F11/1-2	1A05 DOUBLE FUSIBLE	690 V - 630 A	211VF00990B01	12		QMT -BMa
109	1F12/1-2	1A05 DOUBLE FUSIBLE	690 V - 630 A	211VF00990B01	12		QMT -BMb
110	1F13/1-2	1A05 DOUBLE FUSIBLE	690 V - 630 A	211VF00990B01	12		QMT -BMB
111	1L1	HEARTH REACTOR		211VL00922B	4		QMT -BMa
112	1L2	HEARTH REACTOR		211VL00922B	4		QMT -BMb
113	1K16	CHARGE BATTERY 2A1 CONTACTOR	LTC 250 1500 V - 250 A	211VK00937B01	12		UNDERFRAME BP
114	1K17	CHARGE BATTERY 2A1 CONTACTOR	LTC 250 1500 V - 250 A	211VK00937B01	12		UNDERFRAME BC
115							
116	1K01	TRAIN HEATING CONTACTOR	LTC 250 1000 V - 250 A	211VK00901B01	4		QAT -BMa
117	1K02	TRAIN HEATING CONTACTOR	LTC 250 1000 V - 250 A	211VK00901B01	4		QAT -BMa
118	1K03	TRAIN HEATING CONTACTOR	LTC 250 1000 V - 250 A	211VK00901B01	4		QAT -BMb
119	1K04	TRAIN HEATING CONTACTOR	LTC 250 1000 V - 250 A	211VK00901B01	4		QAT -BMb
120							
121	1K10	SUPPLY BATTERY CHARGE CONTACTOR	LTC 250 1500 V - 250 A	211VK00937B01	12		QAT -BMa
122	1K11	SUPPLY BATTERY CHARGE CONTACTOR	LTC 250 1500 V - 250 A	211VK00937B01	12		QAT -BMa
123	1K12	SUPPLY BATTERY CHARGE CONTACTOR	LTC 250 1500 V - 250 A	211VK00937B01	12		QAT -BMb
124							
125	1L11	MOTOR FILTER REACTORS		211EL22820B	5		UNDERFRAME BMa
126	1L21	MOTOR FILTER REACTORS		211EL22820B	6		UNDERFRAME BMa
127	1L31	MOTOR FILTER REACTORS		211EL22820B	7		UNDERFRAME BMb
128	1L41	MOTOR FILTER REACTORS		211EL22820B	8		UNDERFRAME BMb

DIST.	INDICE	MODIFICHE		VISTO	DATA	INDICE	MODIFICHE		VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>	AREA	DIS. P. GAL		APPARATUS LIST	237VE05680C01	MOD. 07	
	00	EMISSION			N.V. 20.10.98							MILANO	PROG.					
	01	REDRAWN			P.G. 19.01.00							ENTE	CONTR.					
	04	REDRAWN			P.G. 21.03.00							ING/PEV	RESP. UFF.					
	07	REDRAWN			04/01													
																SOSTITUISCE	F. 33	
																	SOSTITUITO DA	SEGUE F. 34

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
129	1M1	TRACTION MOTOR 1		231MESE067B	5		LOCATED ON THE BOGIE
130	1M2	TRACTION MOTOR 2		231MESE067B	6		LOCATED ON THE BOGIE
131	1M3	TRACTION MOTOR 3		231MESE067B	7		LOCATED ON THE BOGIE
132	1M4	TRACTION MOTOR 4		231MESE067B	8		LOCATED ON THE BOGIE
133	1Q1	H.V. BREACKER	SECHERON: BVAC M97	211VK00725B020111	4		LOCATED ON THE IMPERIAL BP
134	1Q2	HEARTING SWITCH	SECHERON: BTE		4		LOCATED IN 1Q1
135	1Q3	PANTOGRAPH SWITCH	COEPTE STL 25	211VQ00948B	4		LOCATED ON THE IMPERIAL BP
136	1Q4	H.V. BREACKER			4		LOCATED IN 1Q3
137							
138							
139							
140	1T1	MAIN TRANSFORMER	ABB ADDA: SK8067	371VE03053B	4		UNDERFRAME BMa
141	1T1-L1	33.33Hz FILTER REACTOR FOR MAIN CONVERTER 1			4		INSIDE TRANSFORMER 1T1
142	1T1-L2	33.33Hz FILTER REACTOR FOR MAIN CONVERTER 2			4		INSIDE TRANSFORMER 1T1
143	1T1-Q1	HV ISOLATING SWITCH			4		INSIDE TRANSFORMER 1T1
144	1T1-T1	PRIMARY WINDING			4		INSIDE TRANSFORMER 1T1
145	1T1-T2	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
146	1T1-T3	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
147	1T1-T4	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
148	1T1-T5	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
149	1T1-T6	AUXILIARY CONVERTERS SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
150	1T1-T7	230 Vac AUXILIARY SECONDARY WINDING			4		INSIDE TRANSFORMER 1T1
151	1T1-T8	TRAIN HEATING SECONDARY WINNDING			4		INSIDE TRANSFORMER 1T1
152							
153							
154							
155							
156							
157							
158							
159							
160							

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
161							
162	1T2	MAIN TRANSFORMER	ABB ADDA: SK8067	371VE03053B	4		UNDERFRAME BMb
163	1T2-L1	33.33Hz FILTER REACTOR FOR MAIN CONVERTER 1			4		INSIDE TRANSFORMER 1T2
164	1T2-L2	33.33Hz FILTER REACTOR FOR MAIN CONVERTER 2			4		INSIDE TRANSFORMER 1T2
165	1T2-Q1	HV ISOLATING SWITCH			4		INSIDE TRANSFORMER 1T2
166	1T2-T1	PRIMARY WINDING			4		INSIDE TRANSFORMER 1T2
167	1T2-T2	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
168	1T2-T3	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
169	1T2-T4	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
170	1T2-T5	TRACTION SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
171	1T2-T6	AUXILIARY CONVERTERS SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
172	1T2-T7	230 Vac AUXILIARY SECONDARY WINDING			4		INSIDE TRANSFORMER 1T2
173	1T2-T8	TRAIN HEATING SECONDARY WINNDING			4		INSIDE TRANSFORMER 1T2
174							
175							
176	1TA1	HARMONIC DETECTOR CURRENT TRANSFORMER	CONTREL 100:1-170A/162/3Hz-2A/95-105Hz	211ET22998B	4		LOCATED ON THE IMPERIAL BP
177	1TA2	LINE CURRENT TRANSFORMER	0.63VA 170Apr /0.34A sec	211VT00934B01	4	INSIDE BOX	LOCATED ON THE IMPERIAL BP
178	1TA3	CURRENT TRANSFORMER FOR ENERGY METER	10VA 170Apr /1A sec	211VT00939B	4	231VE05837B	LOCATED ON THE IMPERIAL BP
179	1TA4	CURRENT TRANSFORMER FOR ENERGY METER	10VA 170Apr /1A sec	211VT00939B	4	INSIDE BOX	LOCATED ON THE IMPERIAL BP
180	1TA5	LINE CURRENT TRANSFORMER	0.63VA 170Apr /0.34A sec	211VT00934B01	4	231VE05895B	LOCATED ON THE IMPERIAL BP
181	1TA6	DRAINAGE CURRENT TRANSFORMER	4VA 170Apr /0.56A sec	211VT00934B03	4	INSIDE BOX AT	LOCATED IN BMa
182	1TA7	TRAIN HEATING CURRENT TRANSFORMER	0.52VA 245Apr /0.49A sec	211VT00934B02	4	INSIDE BOX AT	LOCATED IN BMa
183	1TA8	TRAIN HEATING CURRENT TRANSFORMER	0.52VA 245Apr /0.49A sec	211VT00934B02	4	INSIDE BOX AT	LOCATED IN BMb
184	1TA9	DRAINAGE CURRENT TRANSFORMER	4VA 170Apr /0.56A sec	211VT00934B03	4	INSIDE BOX AT	LOCATED IN BMb
185	1TV1	LINE VOLTAGE TRANSFORMER	NESSWANDLER-BAU: VGF 36/18kV	211VT00932B	4		LOCATED ON THE IMPERIAL BP
186	1TV2	TRAIN HEATING SOCKET VOLTAGE TRANSFORMER	10VA 1000pr /24V sec	211VT00940B	4	INSIDE BOX AT	LOCATED IN BMb
187	1TV3	TRAIN HEATING SOCKET VOLTAGE TRANSFORMER	10VA 1000pr /24V sec	211VT00940B	4	INSIDE BOX AT	LOCATED IN BMb
188							
189							
190							
191							
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POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
193							
194	1X1	PANTOGRAPH	SCHUNK: WBL88	211PESE067B	4		LOCATE ON THE IMPERIAL BP
195	1X2	PANTOGRAPH	SCHUNK: WBL88	211PESE067B	4		LOCATE ON THE IMPERIAL BP
196	1X3:1X11	EARTING BRUSH	RISOMESA: 5961/CARBONIO:C10010/95	211VX00962B01	4		LOCATE ON THE BOGIE
197	1X12	TRAIN HEATING SOCKET	SPII: C3726 – C3731 – C3730	232VE05771B–232VE06060C	4		LOCATE IN FRONT BMb
198	1X13	TRAIN HEATING SOCKET	SPII: C3726 – C3731 – C3730	232VE05771B–232VE06060C	4		LOCATE IN FRONT BMa
199	1X14	TRAIN HEATING SOCKET	SPII: C3726 – C3731 – C3730	232VE05771B–232VE06060C	4		LOCATE IN FRONT BMb
200	1X15	TRAIN HEATING SOCKET	SPII: C3726 – C3731 – C3730	232VE05771B–232VE06060C	4		LOCATE IN FRONT BMa
201							
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POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
225	2A1	CHARGE BATTERY CONVERTER	13,5kW – 24Vcc	231EE08209B	12		LOCATE UNDERFRAME BC
226	2A2	CHANGE BATTERY CONVERTER	13,5kW – 24Vcc	231EE08209B	12		LOCATE UNDERFRAME BP
227	2F01	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S292 100A	05E970290P05+P13	19		LOCATE IN THE BOX M.T.– BMa
228	2F02	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S292 100A	05E970290P05+P13	19		LOCATE IN THE BOX M.T.– BMb
229	2F20	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 6A	05E970280P68+PA2	13		LOCATE IN THE BOX M.T.– BMa
230	2F21	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 6A	05E970280P68+PA2	13		LOCATE IN THE BOX M.T.– BMa
231	2F22	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 10A	05E970280P70+PA2	13		LOCATE IN THE BOX M.T.– BMa
232	2F23	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 10A	05E970280P70+PA2	13		LOCATE IN THE BOX M.T.– BMa
233	2F24	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	13		LOCATE IN THE BOX M.T.– BMa
234	2F25	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	13		LOCATE IN THE BOX M.T.– BMa
235	2F26	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	14		LOCATE IN THE BOX M.T.– BMa
236	2F27	TRIPLE POLE CIRCUIT BREAKER	ALLEN–BRANDLEY : 140MN – 0063	FAIVELEY	14		LOCATE IN THE BOX M.T.– BMa
237	2F28	TRIPLE POLE CIRCUIT BREAKER	ABB : S283–K10	FAIVELEY	14		LOCATE IN THE BOX M.T.– BMa
238	2F29	TRIPLE POLE CIRCUIT BREAKER	ALLEN–BRANDLEY : 140MN – 00063	FAIVELEY	14		LOCATE IN THE BOX M.T.– BMa
239	2F30	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 40A	05E970280P68+PA2	14		LOCATE IN THE BOX M.T.– BMa
240	2F31	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY7338 2A	211VQ00960B04	14		LOCATE IN THE BOX M.T.– BMa
241	2F32	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 4A K	05E970280 P45	14		LOCATE IN THE BOX M.T.– BMa
242	2F33	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 40A	05E970280P75+PA2	15		LOCATE IN THE BOX M.T.– BP
243	2F34	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 32A	05E970280P73+PA2	15		LOCATE IN THE BOX M.T.– BP
244	2F35	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 10A D	211VK01301B02	16		LOCATE IN THE BOX M.T.– BC
245	2F36	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 40A	05E970280P68+PA2	16		LOCATE IN THE BOX M.T.– BC
246	2F37	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ00960B09	16		LOCATE IN THE BOX M.T.– BC
247	2F38	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2032 16A	211VQ00960B11	16		LOCATE IN THE BOX M.T.– BC
248	2F39	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 6A	05E970280P68+PA2	17		LOCATE IN THE BOX M.T.– BMb
249	2F40	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 6A	05E970280P68+PA2	17		LOCATE IN THE BOX M.T.– BMb
250	2F41	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 10A	05E970280P70+PA2	17		LOCATE IN THE BOX M.T.– BMb
251	2F42	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 10A	05E970280P70+PA2	17		LOCATE IN THE BOX M.T.– BMb
252	2F43	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	17		LOCATE IN THE BOX M.T.– BMb
253	2F44	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	17		LOCATE IN THE BOX M.T.– BMb
254	2F45	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S283 8A	05E970280P69+PA2	18		LOCATE IN THE BOX M.T.– BMb
255	2F46	TRIPLE POLE CIRCUIT BREAKER	ALLEN–BRANDLEY : 140MN – 0063	FAIVELEY	18		LOCATE IN THE BOX M.T.– BMb
256	2F47	TRIPLE POLE CIRCUIT BREAKER	ABB : S283–K10	FAIVELEY	18		LOCATE IN THE BOX M.T.– BMb

DIST.

INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
03	REDRAWN	P.C.	21.03.00				
07	REDRAWN		04/01				
08	Mod. 2F35, add 2F32		06/03				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA MILANO

ENTE ING/PEV

DIS. P. GAL	
PROG.	
CONTR.	
RESP. UFF.	

APPARATUS LIST

237VE05680C01	MOD. 08
SOSTITUISCE	F. 37
SOSTITUITO DA	SEGUE F. 38

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
257	2F48	TRIPLE POLE CIRCUIT BREAKER	ALLEN-BRANDLEY : 140MN - 0063	FAIVELEY	18		LOCATE IN THE BOX M.T.- BMb
258	2F49	TRIPLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S283 40A	05E970280P75 +PA2	18		LOCATE IN THE BOX M.T.- BMb
259	2F50	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY7338 2A	211VQ00960B04	18		LOCATE IN THE BOX M.T.- BMb
260	2F51	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 4A K	05E970280 P45	18		LOCATE IN THE BOX M.T.- BMb
261							
262							
263							
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267							
268	2F60	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 63A	05E970280 P40+PA2	20		LOCATE IN THE BOX M.T.- BMa
269	2F61	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 2A	05E970280 P58+PA2	20		LOCATE IN THE BOX M.T.- BMa
270	2F62	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY2040 20A	211VQ00960B12+A0	20		LOCATE IN THE BOX M.T.- BMa
271							
272	2F64	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY2040 20A	211VQ00960B12+A0	20		LOCATE IN THE BOX M.T.- BMa
273	2F65	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY2050 50A	211VQ00960B16+A0	21		LOCATE IN THE BOX M.T.- BMa
274							
275							
276							
277	2F69	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 6A	05E970280P31+PA2	21		LOCATE IN THE BOX M.T.- BMa
278	2F70	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S272 -K1	FAIVELEY	20		LOCATE IN THE BOX M.T.- BMa
279	2F71	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 63A	05E970280 P40+PA2	22		LOCATE IN THE BOX M.T.- BP
280	2F72	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 - 8A	053970280P32+PA2	22		LOCATE IN THE BOX M.T.- BP
281	2F73	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY1016 16A	211VQ00960B11+A0	22		LOCATE IN THE BOX M.T.- BP
282	2F74	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY2040 20A	211VQ00960B12+A0	22		LOCATE IN THE BOX M.T.- BP
283	2F75	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: S282 63A	05E970280 P40+PA2	23		LOCATE IN THE BOX M.T.- BC
284	2F76	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: Y2016 16A	211VQ00960B11+A0	23		LOCATE IN THE BOX M.T.- BC
285	2F77	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTRONCONDUCTTURE: EY2040 20A	211VQ00960B12+A0	23		LOCATE IN THE BOX M.T.- BC
286							
287							
288							

INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	AREA	DIS. P. GAL					
00	EMISSION	N.V.	20.10.98					MILANO	PRDG.					
04	REDRAWN	P.G.	21.03.00											
07	REDRAWN		04/01											
08	Add 2F51		06/03											
09	REDRAWN		05/07											
10	REDRAWN		06/09											

ANSALDO

Ansaldo Trasporti s.p.a.

AREA

MILANO

ENTE

ING/PEV

DIS. P. GAL

PRDG.

CONTR.

RESP. UFF.

APPARATUS LIST

237VE05680C01

SOSTITUISCE

SOSTITUITO DA

MOD.

10

F.

38

SEGUE F.

39

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
289	2F78	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2006 6A	211VQ00960B07+A0	24		LOCATED IN THE BOX M.T.- BC
290	2F79	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2006 6A	211VQ00960B07+A0	24		LOCATED IN THE BOX M.T.- BC
291	2F80	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2006 6A	211VQ00960B07+A0	24		LOCATED IN THE BOX M.T.- BC
292	2F81	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 8A	05E970280 P32+PA2	24		LOCATED IN THE BOX M.T.- BC
293	2F82	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 8A	05E970280 P32+PA2	24		LOCATED IN THE BOX M.T.- BC
294	2F83	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 8A	05E970280 P32+PA2	24		LOCATED IN THE BOX M.T.- BC
295	2F84	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S272 K1	FAIVELEY	25		LOCATED IN THE BOX M.T.- BMb
296	2F85	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 2A	05E970280 P58+PA2	25		LOCATED IN THE BOX M.T.- BMb
297	2F86	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2040 20A	211VQ00960B12+A0	25		LOCATED IN THE BOX M.T.- BMb
298	2F87	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 63A	05E970280 P40+PA2	25		LOCATED IN THE BOX M.T.- BMb
299	2F88	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2040 20A	211VQ00960B12+A0	25		LOCATED IN THE BOX M.T.- BMb
300	2F89	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2050 50A	211VQ00960B16+A0	25		LOCATED IN THE BOX M.T.- BMb
301	2F90	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 50A	05E970280 P39+PA2	23		
302							
303							
304	2F93	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: S282 6A	05E970280P31+PA2	26		LOCATED IN THE BOX M.T.- BMb
305	2F94	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BMa
306	2F95	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BMa
307	2F96	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BP
308	2F97	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BC
309							
310	2F98	DOUBLE POLE CIRCUIT BREAKER (WC)	ABB ELETTROCONDUTTURE: EY7338 2A	211VQ00960B04	27		LOCATED IN THE BOX M.T.- BC
311	2F99	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BC
312	2F100	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BMb
313	2F101	DOUBLE POLE CIRCUIT BREAKER	ABB ELETTROCONDUTTURE: EY2024 10A	211VQ0960B09	27		LOCATED IN THE BOX M.T.- BMb
314							
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INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	<div><div>ANSALDO</div><div>Ansaldo Trasporti s.p.a.</div></div>	AREA	DIS. P. GAL		APPARATUS LIST	237VE05680C01	MOD. 10	
00	EMISSION	N.V.	20.10.98						MILANO	PRDG.					
04	REDRAWN	P.G.	21.03.00												
07	REDRAWN		04/01						ENTE	CONTR.					
08	REDRAWN		04/02						ING/PEV	RESP. UFF.					
09	REDRAWN		05/07												
10	REDRAWN		06/09												
												SOSTITUISCE	F.	39	
												SOSTITUITO DA	SEGUE F. 40		

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
321							
322							
323	2K01	CONVERTER 1A5 OUTPUT TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 110	211VK00938B0100	12		LOCATED IN THE BOX M.T.- BMa
324	2K02	CONVERTER 1A6 OUTPUT TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12		LOCATED IN THE BOX M.T.- BMa
325	2K03	CONVERTER 1A6 OUTPUT TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 110	211VK00938B0100	12		LOCATED IN THE BOX M.T.- BMb
326	2K04	CONVERTER 1A6 OUTPUT TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 110	211VK00938B0100	12		LOCATED IN THE BOX M.T.- BMb
327	2K05	M.V. CONFIGURATION SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12		LOCATED IN THE BOX M.T.- BMa
328	2K06	M.V. CONFIGURATION SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12		LOCATED IN THE BOX M.T.- BMa
329	2K07	M.V. CONFIGURATION SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12		LOCATED IN THE BOX M.T.- BMb
330	2K08	M.V. CONFIGURATION SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12	INSIDE QMT1	LOCATED IN THE BOX M.T.- BC
331	2K09	M.V. EXTERNAL SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 110	211VK00938B0100	12		LOCATED IN THE BOX M.T.- BMa
332	2K10	M.V. EXTERNAL SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	12		LOCATED IN THE BOX M.T.- BMb
333							
334	2K11	CONTROL IN THE CICLE DIRECTION RELAY	AMRA: OK - Ph	4AMT553442R01	12		LOCATED IN THE BOX M.T.- BMa
335	2K12	CONTROL IN THE CICLE DIRECTION RELAY	AMRA: OK - Ph	4AMT553442R01	12		LOCATED IN THE BOX M.T.- BMb
336							
337	2K13	230Vac - 16 2/3Hz SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	19		LOCATED IN THE BOX M.T.- BMa
338	2K14	230Vac - 16 2/3Hz SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	19		LOCATED IN THE BOX M.T.- BMb
339	2K15	230Vac - 16 2/3Hz SUPPLY TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0200	19	INSIDE QMT1	LOCATED IN THE BOX M.T.- BC
340							
341							
342	2K20	TRACTION MOTOR 1M1 FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	13		LOCATED IN THE BOX M.T.- BMa
343	2K21	TRACTION MOTOR 1M1 FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	13		LOCATED IN THE BOX M.T.- BMa
344	2K22	WATER OIL FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	13		LOCATED IN THE BOX M.T.- BMa
345	2K23	WATER OIL FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	13		LOCATED IN THE BOX M.T.- BMa
346	2K24	CONVERTER 1A1 WATER PUMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	13		LOCATED IN THE BOX M.T.- BMa
347	2K25	CONVERTER 1A2 WATER PUMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	13		LOCATED IN THE BOX M.T.- BMa
348	2K26	TRANSFORMER 1T1 OIL POMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	13		LOCATED IN THE BOX M.T.- BMa
349							
350							
351	2K34	MAIN COMPRESSOR TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TAE 75	211VK00938B0201	15		LOCATED IN THE BOX M.T.- BP
352	2K35	THERMAL RELAYS	ABB ELETTROCONDUTTURE: TA75DU-32	211EK23100B01	15		LOCATED IN THE BOX M.T.- BP

DIST.

INDICE	MODIFICHE		VISTO	DATA	INDICE	MODIFICHE		VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>	AREA	DIS. P. GAL		APPARATUS LIST	237VE05680C01	MOD. 07
00	EMISSION			N.V. 20.10.98					MILANO		PROG.					
02	REDRAWN			P.G. 21.03.00					ENTE		CONTR.					
07	REDRAWN			04/01					ING/PEV		RESP. UFF.					
														SOSTITUISCE	F. 40	
														SOSTITUITO DA	SEGUE F. 41	

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
353	2K39	TRACTION MOTOR 1M3 FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	17		LOCATED IN THE BOX M.T.- BMB
354	2K40	TRACTION MOTOR 1M4 FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	17		LOCATED IN THE BOX M.T.- BMB
355	2K41	WATER AND OIL FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	13		LOCATED IN THE BOX M.T.- BMB
356	2K42	WATER AND OIL FAN TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	13		LOCATED IN THE BOX M.T.- BMB
357	2K43	CONVERTER 1A3 WATER PUMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	17		LOCATED IN THE BOX M.T.- BMB
358	2K44	CONVERTER 1A4 WATER PUMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	17		LOCATED IN THE BOX M.T.- BMB
359	2K45	TRANSFORMER 1T2 OIL PUMP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 30	211VK00397B05	18		LOCATED IN THE BOX M.T.- BMB
360							
361							
362							
363	2K61	HEATING SIDE MIRROR QUADRUPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	20		LOCATED IN THE BOX M.T.- BMB
364	2K62	HEATING CAB DRIVER FLOOR TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	20		LOCATED IN THE BOX M.T.- BMB
365	2K63	HEATING DOORS STEP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	20		LOCATED IN THE BOX M.T.- BMB
366							
367	2K65	NORMAL HEATING WINDSCREEN QUADRUPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 25	211VQ00967B01	21		LOCATED IN THE BOX M.T.- BMB
368	2K66	FAST HEATING WINDSCREEN QUADRUPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 25	211VQ00967B01	21		LOCATED IN THE BOX M.T.- BMB
369	2K67	HEATING SIDE WINDOW TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	21		LOCATED IN THE BOX M.T.- BMB
370	2K68	HEATING SIDE WINDOW TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	21		LOCATED IN THE BOX M.T.- BMB
371	2K69	HEATING SANDIG TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	21		LOCATED IN THE BOX M.T.- BMB
372							
373	2K73	HEATING DOORS STEP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	22		LOCATED IN THE BOX M.T.- BP
374							
375	2K76	HEATING DOORS STEP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	23		LOCATED IN THE BOX M.T.- BC
376	2K78	HEATING WATER TANK TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	24		LOCATED IN THE BOX M.T.- BC
377	2K79	HEATING COLLECTOR TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	24		LOCATED IN THE BOX M.T.- BC
378	2K81	HEATING CABLES WC TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	24		LOCATED IN THE BOX M.T.- BC
379	2K82	HEATING CABLES WC TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	24		LOCATED IN THE BOX M.T.- BC
380	2K83	HEATING CABLES WC TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	24		LOCATED IN THE BOX M.T.- BC
381							
382	2K85	HEATING SIDE MIRROR TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	25		LOCATED IN THE BOX M.T.- BMB
383	2K86	HEATING CAB DRIVER FLOOR TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	25		LOCATED IN THE BOX M.T.- BMB
384	2K87	HEATING DOOR STEP TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	25		LOCATED IN THE BOX M.T.- BMB

DIST.

INDICE	MODIFICHE	VISTO	DATA	INDICE	MODIFICHE	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
04	REDRAWN	P.G.	21.03.00				
07	REDRAWN		04/01				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA MILANO

ENTE ING/PEV

DIS. P. GAL	
PROG.	
CONTR.	
RESP. UFF.	

APPARATUS LIST

237VE05680C01	MOD. 07
SOSTITUISCE	F. 41
SOSTITUITO DA	SEGUE F. 42

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
385	2K89	NORMAL HEATING WINDSCREEN QUADRUPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 25	211VQ00967B01	26		LOCATED IN THE BOX M.T.- BMa
386	2K90	FAST HEATING WINDSCREEN QUADRUPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 25	211VQ00967B01	26		LOCATED IN THE BOX M.T.- BMa
387	2K91	HEATING SIDE WINDOW TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	26		LOCATED IN THE BOX M.T.- BMb
388	2K92	HEATING SIDE WINDOW TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	26		LOCATED IN THE BOX M.T.- BMb
389	2K93	HEATING SANDING TRIPLE POLE CONTACTOR	ABB ELETTROCONDUTTURE: TBC 16	211VQ00222B221122	26		LOCATED IN THE BOX M.T.- BMb
390	2K94	MEASURING VOLTAGE RELAY	AMRA - MOK-V2	211VK01647B02	24		LOCATED IN THE BOX M.T.- BC
391							
392							
393	2M20	TRACTION MOTOR 1M1 FAN		211VZ00936B01	13		LOCATED ON THE IMPERIAL BMa
394	2M21	TRACTION MOTOR 1M1 FAN		211VZ00936B01	13		LOCATED ON THE IMPERIAL BMa
395	2M22	WATER AND OIL RADIATORS FAN		211EZ22746B	13	INSIDE COOLER ASS	UNDER FRAME BMa
396	2M23	WATER AND OIL RADIATORS FAN		211EZ22746B	13	INSIDE COOLER ASS	UNDER FRAME BMa
397	2M24	CONVERTER 1A1 WATER PUMP		211EZ22632B	13	LOCATED INTO 1A1	UNDER FRAME BMa
398	2M25	CONVERTER 1A2 WATER PUMP		211EZ22632B	13	LOCATED INTO 1A2	UNDER FRAME BMa
399	2M26	TRANSFORMER 1T1 OIL PUMP			14	LOCATED INTO 1T1	UNDER FRAME BMa
400							
401	2M31	CAB DRIVER REFRIGERETOR			14		LOCATED IN THE FRAME BMa
402							
403	2M34	MAIN COMPRESSOR AIR			15		LOCATED IN THE FRAME BP
404	2M34-RES	MAIN COMPRES.AIR,OIL ESSICATOR HEATING			22		LOCATED IN THE FRAME BP
405	2M37	WC FAN			16	INSIDE TOILET LOC	IN THE FRAME BC
406							
407	2M39	TRACTION MOTOR 1M3 FAN		211VZ00936B01	17		LOCATED ON THE IMPERIAL BMb
408	2M40	TRACTION MOTOR 1M4 FAN		211VZ00936B01	17		LOCATED ON THE IMPERIAL BMb
409	2M41	WATER AND OIL RADIATORS FAN		211EZ22746B	17	INSIDE COOLER ASS	UNDER FRAME BMb
410	2M42	WATER AND OIL RADIATORS FAN		211EZ22746B	17	INSIDE COOLER ASS	UNDER FRAME BMb
411	2M43	CONVERTER 1A3 WATER PUMP		211EZ22632B	17	LOCATED INTO 1A1	UNDER FRAME BMb
412	2M44	CONVERTER 1A4 WATER PUMP		211EZ22632B	17	LOCATED INTO 1A2	UNDER FRAME BMb
413	2M45	TRANSFORMER 1T1 OIL PUMP			25	LOCATED INTO 1T1	UNDER FRAME BMb
414							
415	2M50	CAB DRIVER REFRIGERETOR			25		LOCATED IN THE frame BMb
416							

Disegno eseguito con CAD

Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente vietato riprodurre o comunicare a terzi il contenuto del presente disegno

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
417	2R37	HOT AIR HAND DRYER			16		LOCATED IN THE FRAME BMa
418							
419							
420	2R61/1	HEATING SIDE MIRROR RESISTOR			20		LOCATED IN THE FRAME BMa
421	2R61/2	HEATING SIDE MIRROR RESISTOR			20		LOCATED IN THE FRAME BMa
422	2R62/1	HEATING CAB DRIVER FLOOR RESISTOR					
423	2R62/2	HEATING CAB DRIVER FLOOR RESISTOR					
424	2R63/1	HEATING UPPER DOOR 1 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
425	2R63/2	HEATING BELOW DOOR 1 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
426	2R63/3	HEATING UPPER DOOR 2 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
427	2R63/4	HEATING BELOW DOOR 2 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
428	2R63/5	HEATING UPPER DOOR 3 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
429	2R63/6	HEATING BELOW DOOR 3 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
430	2R63/7	HEATING UPPER DOOR 4 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
431	2R63/8	HEATING BELOW DOOR 4 STEP RESISTOR			20		LOCATED IN THE FRAME BMa
432	2R63/9	HEATING DISPLAY 1 RESISTOR			20		LOCATED IN THE FRAME BMa
433	2R63/10	HEATING DISPLAY 2 RESISTOR			20		LOCATED IN THE FRAME BMa
434							
435	2R65/1	HEATING WINDSCREEN (SIDE A) RESISTOR			21		LOCATED IN THE FRAME BMa
436	2R65/2	HEATING WINDSCREEN (SIDE B) RESISTOR			21		LOCATED IN THE FRAME BMa
437							
438	2R67	HEATING SIDE WINDOW (SIDE RIGHT) RESISTOR			21		LOCATED IN THE FRAME BMa
439	2R68	HEATING SIDE WINDOW (SIDE LEFT) RESISTOR			21		LOCATED IN THE FRAME BMa
440							
441	2R73/1	HEATING DOOR 1 STEP RESISTOR			22		LOCATED IN THE FRAME BP
442	2R73/2	HEATING DOOR 2 STEP RESISTOR			22		LOCATED IN THE FRAME BP
443	2R73/3	HEATING DOOR 3 STEP RESISTOR			22		LOCATED IN THE FRAME BP
444	2R73/4	HEATING DOOR 4 STEP RESISTOR			22		LOCATED IN THE FRAME BP
445	2R73/5	HEATING DISPLAY 1 RESISTOR			22		LOCATED IN THE FRAME BP
446	2R73/6	HEATING DISPLAY 2 RESISTOR			22		LOCATED IN THE FRAME BP
447							
448							

DIST.

INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
02	REDRAWN	P.G.	21.03.00				
07	REDRAWN		04/01				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA MILANO

ENTE ING/PEV

DIS. P. GAL	
PROG.	
CONTR.	
RESP. UFF.	

APPARATUS LIST

237VE05680C01	MOD. 07
SOSTITUISCE	F. 43
SOSTITUITO DA	SEGUE F. 44

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
449	2R76/1	HEATING DOOR 1 STEP RESISTOR			23		LOCATED IN THE FRAME BC
450	2R76/2	HEATING DOOR 2 STEP RESISTOR			23		LOCATED IN THE FRAME BC
451	2R76/3	HEATING DOOR 3 STEP RESISTOR			23		LOCATED IN THE FRAME BC
452	2R76/4	HEATING DOOR 4 STEP RESISTOR			23		LOCATED IN THE FRAME BC
453	2R76/5	HEATING DISPLAY 1 RESISTOR			23		LOCATED IN THE FRAME BC
454	2R76/6	HEATING DISPLAY 2 RESISTOR			23		LOCATED IN THE FRAME BC
455	2R78	HEATING WATER TANK RESISTOR			24		LOCATED ON THE IMPERIAL BC
456	2R79	HEATING WATER COLLECTOR RESISTOR			24		LOCATED ON THE IMPERIAL BC
457	2R80	BOILER RESISTOR			24		LOCATED IN THE FRAME BC
458	2R81/1	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
459	2R81/2	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
460	2R82/1	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
461	2R82/2	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
462	2R83/1	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
463	2R83/2	HEATING DEVICE WC RESISTOR			24		LOCATED IN THE FRAME BC
464	2R84/1	HEATING DEVICE WATER RESISTOR			24		LOCATED ON THE IMPERIAL BC
465	2R84/2	HEATING DEVICE WATER RESISTOR			24		LOCATED ON THE IMPERIAL BC
466	2R85/1	HEATING SIDE MIRROR RESISTOR			25		LOCATED IN THE frame BMb
467	2R85/2	HEATING SIDE MIRROR RESISTOR			25		LOCATED IN THE frame BMb
468	2R86/1	HEATING CAB DRIVER FLOOR RESISTOR			25		LOCATED IN THE frame BMb
469	2R86/2	HEATING CAB DRIVER FLOOR RESISTOR			25		LOCATED IN THE frame BMb
470	2R87/1	HEATING UPPER DOOR 1 STEP RESISTOR			25		LOCATED IN THE frame BMb
471	2R87/2	HEATING BELOW DOOR 1 STEP RESISTOR			25		LOCATED IN THE frame BMb
472	2R87/3	HEATING UPPER DOOR 2 STEP RESISTOR			25		LOCATED IN THE frame BMb
473	2R87/4	HEATING BELOW DOOR 2 STEP RESISTOR			25		LOCATED IN THE frame BMb
474	2R87/5	HEATING UPPER DOOR 3 STEP RESISTOR			25		LOCATED IN THE frame BMb
475	2R87/6	HEATING BELOW DOOR 3 STEP RESISTOR			25		LOCATED IN THE frame BMb
476	2R87/7	HEATING UPPER DOOR 4 STEP RESISTOR			25		LOCATED IN THE frame BMb
477	2R87/8	HEATING BELOW DOOR 4 STEP RESISTOR			25		LOCATED IN THE frame BMb
478	2R87/9	HEATING DISPLAY 1 RESISTOR			25		LOCATED IN THE frame BMb
479	2R87/10	HEATING DISPLAY 2 RESISTOR			25		LOCATED IN THE frame BMb
480							

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
481	2R89/1	HEATING WINDSCREEN (SIDE A) RESISTOR			26		LOCATED IN THE FRAME BMb
482	2R89/2	HEATING WINDSCREEN (SIDE B) RESISTOR			26		LOCATED IN THE FRAME BMb
483							
484	2R91	HEATING SIDE WINDOW (SIDE RIGHT) RESISTOR			26		LOCATED IN THE FRAME BMb
485	2R92	HEATING SIDE WINDOWS (SIDE LEFT) RESISTOR			26		LOCATED IN THE FRAME BMb
486							
487	2T01	CAB DRIVER REFREGERATOR TRANSFORMER	400/230 Vac – 50Hz – 500VA	211VT00969B01	14		LOCATED IN THE FRAME BMa
488	2T02	WC LOADS TRANSFORMER	400/230 Vac – 50Hz – 2,5kVA	211VT00969B02	16	INSIDE QMT1	LOCATED IN THE FRAME BC
489	2T03	CAB DRIVER REFREGERATOR TRANSFORMER	400/230 Vac – 50Hz – 500VA	211VT00969B01	18		LOCATED IN THE FRAME BMb
490	2T04	AREA CATERING TRANSFORMER	400/230 Vac – 50Hz – 2,5kVA	211VT00969B02	16		LOCATED IN THE FRAME BP
491	2T62/1	CAB DRIVER FLOOR RESISTOR THERMO CUT-OUT			20	INSIDE 2R62/1	LOCATED IN THE FRAME BMa
492	2T62/2	CAB DRIVER FLOOR RESISTOR THERMO CUT-OUT			20	INSIDE 2R62/2	LOCATED IN THE FRAME BMa
493	2T63/1	STEP DOOR 1 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/1	LOCATED IN THE FRAME BMa
494	2T63/2	STEP DOOR 1 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/2	LOCATED IN THE FRAME BMa
495	2T63/3	STEP DOOR 2 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/3	LOCATED IN THE FRAME BMa
496	2T63/4	STEP DOOR 2 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/4	LOCATED IN THE FRAME BMa
497	2T63/5	STEP DOOR 3 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/5	LOCATED IN THE FRAME BMa
498	2T63/6	STEP DOOR 3 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/6	LOCATED IN THE FRAME BMa
499	2T63/7	STEP DOOR 4 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/7	LOCATED IN THE FRAME BMa
500	2T63/8	STEP DOOR 4 RESISTOR THERMO CUT-OUT			20	INSIDE 2R63/8	LOCATED IN THE FRAME BMa
501							
502	2T73/1	STEP DOOR 1 RESISTOR THERMO CUT-OUT			22	INSIDE 2R73/1	LOCATED IN THE FRAME BP
503	2T73/2	STEP DOOR 2 RESISTOR THERMO CUT-OUT			22	INSIDE 2R73/2	LOCATED IN THE FRAME BP
504	2T73/3	STEP DOOR 3 RESISTOR THERMO CUT-OUT			22	INSIDE 2R73/3	LOCATED IN THE FRAME BP
505	2T73/4	STEP DOOR 4 RESISTOR THERMO CUT-OUT			22	INSIDE 2R73/4	LOCATED IN THE FRAME BP
506							
507	2T76/1	STEP DOOR 1 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/1	LOCATED IN THE FRAME BC
508	2T76/2	STEP DOOR 2 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/2	LOCATED IN THE FRAME BC
509	2T76/3	STEP DOOR 3 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/3	LOCATED IN THE FRAME BC
510	2T76/4	STEP DOOR 4 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/4	LOCATED IN THE FRAME BC
511	2T76/7	STEP DOOR 3 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/3	LOCATED IN THE FRAME BC
512	2T76/8	STEP DOOR 4 RESISTOR THERMO CUT-OUT			23	INSIDE 2R76/4	LOCATED IN THE FRAME BC

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
513	2R76/7	HEATING MOBILE STEEP			23		LOCATED IN THE FRAME.- BC
514	2R76/8	HEATING MOBILE STEEP			23		LOCATED IN THE FRAME.- BC
515	2R76/9	HEATING MOBILE STEEP			23		LOCATED IN THE FRAME.- BC
516	2R76/10	HEATING MOBILE STEEP			23		LOCATED IN THE FRAME.- BC
517							
518	2T86/1	CAB DRIVER FLOOR RESISTOR THERMO CUT-OUT			25	INSIDE 2R86/1	LOCATED IN THE FRAME.- BMb
519	2T86/2	CAB DRIVER FLOOR RESISTOR THERMO CUT-OUT			25	INSIDE 2R86/2	LOCATED IN THE FRAME.- BMb
520	2T87/1	STEP DOOR 1 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/1	LOCATED IN THE FRAME.- BMb
521	2T87/2	STEP DOOR 1 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/2	LOCATED IN THE FRAME.- BMb
522	2T87/3	STEP DOOR 2 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/3	LOCATED IN THE FRAME.- BMb
523	2T87/4	STEP DOOR 2 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/4	LOCATED IN THE FRAME.- BMb
524	2T87/5	STEP DOOR 3 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/5	LOCATED IN THE FRAME.- BMb
525	2T87/6	STEP DOOR 3 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/6	LOCATED IN THE FRAME.- BMb
526	2T87/7	STEP DOOR 4 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/7	LOCATED IN THE FRAME.- BMb
527	2T87/8	STEP DOOR 4 RESISTOR THERMO CUT-OUT			25	INSIDE 2R87/8	LOCATED IN THE FRAME.- BMb
528	2T87/9	STEP DOOR 3 RESISTOR THERMO CUT-OUT			23	INSIDE 2R87/6	LOCATED IN THE FRAME.- BC
529	2T87/10	STEP DOOR 4 RESISTOR THERMO CUT-OUT			23	INSIDE 2R87/8	LOCATED IN THE FRAME.- BC
530							
531							
532	2X01	M.V. SUPPLY INLET SOCKET	CEE/17 63A (3P+T)	211VX00961B01	12		LOCATED EXTERNAL FRAME.- BMa
533	2X02	M.V. SUPPLY INLET SOCKET	CEE/17 63A (3P+T)	211VX00961B01	12		LOCATED EXTERNAL FRAME.- BMb
534	2X03	VACUUM CLEANER SOCKET			20		LOCATED IN THE FRAME BMa
535	2X04	VACUUM CLEANER SOCKET			20		LOCATED IN THE FRAME BMa
536	2X05	VACUUM CLEANER SOCKET			22		LOCATED IN THE FRAME BP
537	2X06	VACUUM CLEANER SOCKET			22		LOCATED IN THE FRAME BP
538	2X07	VACUUM CLEANER SOCKET			23		LOCATED IN THE FRAME BC
539	2X08	VACUUM CLEANER SOCKET			23		LOCATED IN THE FRAME BC
540	2X09	VACUUM CLEANER SOCKET			25		LOCATED IN THE FRAME BMb
541	2X10	VACUUM CLEANER SOCKET			25		LOCATED IN THE FRAME BMb
542							
543	2X37	CATERING AREA SOCKET			16		LOCATED IN THE FRAME BC
544	2X38	CATERING AREA SOCKET			16		LOCATED IN THE FRAME BC

DISSEGNO ESEGUITO CON CAD

Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' rigorosamente vietato riprodurre o comunicare a terzi il contenuto del presente disegno

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
545	2X36	REFRIGERATOR CAB DRIVER			18		LOCATED IN THE FRAME.- BMb
546	2X20	CAB AT SOCKET			27		LOCATED IN THE FRAME.- BMa
547	2X21	CAB DRIVER SOCKET			27		LOCATED IN THE FRAME.- BMa
548	2X22	CAB DRIVER SOCKET			27		LOCATED IN THE FRAME.- BMa
549	2X23	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BMa
550	2X24	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BMa
551	2X25	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BP
552	2X26	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BC
553	2X27	SHAVER SOCKET			27		LOCATED IN THE FRAME.- BC
554	2X28	CATERING AREA SOCKET			27		LOCATED IN THE FRAME.- BC
555	2X29	WHEELCHAIR SOCKET			27		LOCATED IN THE FRAME.- BC
556	2X30	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BC
557	2X31	TECHNICAL CABINET SOCKET			27		LOCATED IN THE FRAME.- BMb
558	2X32	CAB DRIVER SOCKET			27		LOCATED IN THE FRAME.- BMb
559	2X33	CAB DRIVER SOCKET			27		LOCATED IN THE FRAME.- BMb
560	2X34	CAB AT SOCKET			27		LOCATED IN THE FRAME.- BMb
561	2X35	REFRIGERATOR CAB DRIVER			14		LOCATED ON THE IMPERIAL BMa
562	3A19	AIR CONDITIONING UNIT "DRIVER CAB"			09		LOCATED ON THE IMPERIAL BMa
563	3A19-E1				09	INSIDE QAT	LOCATED IN THE FRAME BMa
564	3E66-F2	CONVECTION HEATER RESISTOR FWE			09	INSIDE QAT	LOCATED IN THE FRAME BMa
565	3E66-F3	ELECTRIC HEATER RESISTOR FWE			09	INSIDE QAT	LOCATED IN THE FRAME BMa
566	3E66-K01	ELECTRIC HEATER RESISTOR CONTACTOR			09	INSIDE QAT	LOCATED IN THE FRAME BMa
567	3E66-K02	ELECTRIC HEATER RESISTOR CONTACTOR			09	INSIDE QAT	LOCATED IN THE FRAME BMa
568	3E66-K03	CONVECTION HEATER RESISTOR CONTACTOR			10		LOCATED ON THE IMPERIAL BMb
569	3A19	AIR CONDITIONING UNIT "DRIVER CAB"			10		LOCATED ON THE IMPERIAL BMb
570	3A19-E1	CONVECTION HEATER RESISTOR			10	INSIDE QAT	LOCATED IN THE FRAME BMb
571	3E66-F2	CONVECTION HEATER RESISTOR FWE	FERRAZ RB10A		10	INSIDE QAT	LOCATED IN THE FRAME BMb
572	3E66-F3	ELECTRIC HEATER RESISTOR FWE	FERRAZ RB 6A		10	INSIDE QAT	LOCATED IN THE FRAME BMb
573	3E66-K01	ELECTRIC HEATER RESISTOR CONTACTOR			10	INSIDE QAT	LOCATED IN THE FRAME BMb
574	3E66-K02	ELECTRIC HEATER RESISTOR CONTACTOR			10	INSIDE QAT	LOCATED IN THE FRAME BMb
575	3E66-K03	CONVECTION HEATER RESISTOR CONTACTOR			10		LOCATED IN THE FRAME BC
576	3E68	CATERING AREA SOCKET			28		LOCATED IN THE FRAME BMa

DIST.

INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA
00	EMISSION	N.V.	20.10.98				
03	REDRAWN	P.C.	21.03.00				
07	REDRAWN		04/01				

ANSALDO

Ansaldo Trasporti s.p.a.

AREA MILANO

ENTE ING/PEV

DIS. P. GAL	
PROG.	
CONTR.	
RESP. UFF.	

APPARATUS LIST

237VE05680C01

MOD. 07

SDSTITUISCE

SDSTITUITO DA

F. 4/7

SEGUE F. 48

Disegno eseguito con CAD
Non sono ammesse modifiche o variazioni manuali.

A termini di legge e' riprodotto
velocemente e senza
il contenuto del presente disegno.

POS	LABEL	DESCRIPTION	MODE / CHARACTERISTIC	SPECIFICATION	Sh.	POSITION	REMARKS
577	3A20	AIR CONDITIONING UNIT "PASSENGERS"			09-28		LOCATED ON THE IMPERIAL BMa
578	W1A/B	HEATER PASSENGERS SALOON 1			09		LOCATED IN THE FRAME.- BMa
579	W2C/D W3C/D	HEATER PASSENGERS SALOON 2			09		LOCATED IN THE FRAME.- BMa
580	W1E/F	HEATER PASSENGERS SALOON 3			09		LOCATED IN THE FRAME.- BMa
581	W4V1/W1	HEATER VESTIBULE 1			09		LOCATED IN THE FRAME.- BMa
582	W4V/W	HEATER VESTIBULE 2			09		LOCATED IN THE FRAME.- BMa
583	3E68	MV/LV CONTROL PANEL			28		LOCATED IN THE FRAME.- BMa
584	3A20	AIR CONDITIONING UNIT "PASSENGERS"			09-28		LOCATED ON THE IMPERIAL BP
585	W5E/W8E/W10F	HEATER PASSENGERS SALOON 3			09		LOCATED IN THE FRAME.- BP
586	W5A/B W8A/B	HEATER PASSENGERS SALOON 1			09		LOCATED IN THE FRAME.- BP
587	W6C/D	HEATER PASSENGERS SALOON 2			09		LOCATED IN THE FRAME.- BP
588	W4V1/W4W1	HEATER VESTIBULE 1			09		LOCATED IN THE FRAME.- BP
589	W4V2/W2	HEATER VESTIBULE 2			09		LOCATED IN THE FRAME.- BP
590	3E68	MV/LV CONTROL PANEL			29		LOCATED IN THE FRAME.- BC
591	3A20	AIR CONDITIONING UNIT "PASSENGERS"			10-29		LOCATED ON THE IMPERIAL BC
592	W5A/B W8A/B	HEATER PASSENGERS SALOON 1			10		
593	W9C/D	HEATER PASSENGERS SALOON 2			10		
594	W5E/W8E/W10F	HEATER PASSENGERS SALOON 3			10		
595	W4V1/W1	HEATER VESTIBULE 1			10		
596	W4V2/W2	HEATER VESTIBULE 2			10		
597	W7T	HEATER TOILETTE			10		
598	3E68	MV/LV CONTROL PANEL			29		LOCATED IN THE FRAME BMb
599	3A20	AIR CONDITIONING UNIT "PASSENGERS"			10-29		LOCATED ON THE IMPERIAL BMb
600	W1A/B	HEATER PASSENGERS SALOON 1			10		LOCATED IN THE FRAME BMb
601	W2C/D W3C/D	HEATER PASSENGERS SALOON 2			10		LOCATED IN THE FRAME BMb
602	W1E/W1F	HEATER PASSENGERS SALOON 3			10		LOCATED IN THE FRAME BMb
603	W4V1/W1	HEATER VESTIBULE 1			10		LOCATED IN THE FRAME BMb
604	W4V2/W2	HEATER VESTIBULE 2			10		LOCATED IN THE FRAME BMb
605	8A13/F01-F02	HV BOX FUSES	xFO1:RB32A; xFO2:RC40A-FERRAZ		09		LOCATED ON THE IMPERIAL BMa
606	8A13/F01-F02	HV BOX FUSES	xFO1:RB32A; xFO2:RC40A-FERRAZ		09		LOCATED ON THE IMPERIAL BP
607	8A13/F01-F02	HV BOX FUSES	xFO1:RB32A; xFO2:RC40A-FERRAZ		10		LOCATED ON THE IMPERIAL BMb
608	8A13/F01-F02	HV BOX FUSES	xFO1:RB32A; xFO2:RC40A-FERRAZ		10		LOCATED ON THE IMPERIAL BC

DIST.	INDICE	M O D I F I C H E	VISTO	DATA	INDICE	M O D I F I C H E	VISTO	DATA	<div>ANSALDO</div> <div>Ansaldo Trasporti s.p.a.</div>	AREA	DIS. P. GAL	APPARATUS LIST	237VE05680C01	MOD. 07
	00	EMISSION								MILANO	PROG.			
	07	REDRAW		P.G. 21.03.00						ENTE	CONTR.			
				04/01						ING/PEV	RESP. UFF.			
													SOSTITUISCE	F. 48
													SOSTITUITO DA	SEGUE F. -