

[INCH-POUND]

MIL-S-16036K(SH)
AMENDMENT 2
4 May 1993
SUPERSEDING
AMENDMENT 1
29 March 1989

MILITARY SPECIFICATION

SWITCHGEAR, POWER, NAVAL SHIPBOARD

This amendment forms a part of MIL-S-16036K(SH), dated 4 August 1988, and is approved for use by the Naval Sea Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

PAGE 33

Add as new paragraph 3.6.2.2:

"3.6.2.2 Insulation resistance. The insulation resistance shall be not less than the requirements of the particular equipment specification or 10 megohms at 25°C, when the particular equipment specification is silent."

PAGE 37

* 3.10.5: Delete the last sentence and add:

"Casualty power terminal shall be enclosure type similar to that depicted by method 2D32 in accordance with DOD-STD-2003 (EPISM). Cable connecting the casualty power circuit breaker and the casualty power terminal shall be type AWG 2 in accordance with MIL-W-16878/32."

PAGE 46

* 3.14: After the last sentence, add "Fuses, fuseholders and fuseclips shall be silver plated in accordance with MIL-F-15160 and MIL-F-21346."

AMSC N/A

FSC 6110

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MIL-S-16036K(SH)
AMENDMENT 2

PAGE 55

* Table IV: Delete and substitute:

"TABLE IV. First article and quality conforming inspection.

Inspection	First article	Quality conformance	Requirement paragraph	Inspection paragraph
General examination	x	x	3.4	4.6.3.1
Maintainability	x	---	3.23	4.6.3.2
Vibration	x	---	3.5.10	4.6.3.3
Shock	x	---	3?5.14	4.6.3.4
Dielectric strength		x	3.25	4.6.3.5
Waterspray	x	---	3.17.4	4.6.3.6.1
Ambient temperature and heat	x	---	3.26	4.6.3.6.2 and 4.6.3.7
Electromagnetic comparability	x	---	3.24	4.6.3.8
Insulation resistance	x	x	3.6.2.2	4.6.3.10

PAGE 59

* 4.6.3.4, lines 1 through 7: Delete the first three sentences: "Equipment required by that unit." and substitute:

"The switchboards, with all equipment installed, shall pass high-impact testing. Equipment which has not been individually qualified to high-impact shock may be used in the switchboard. However, the complete switchboard shall pass high-impact shock testing, regardless of whether the installed equipment was individually shock qualified."

PAGE 62

* Add as new paragraph 4.6.3.10:

"4.6.3.10 Insulation resistance The insulation resistance shall be measured. It shall be not less than the requirements of the particular equipment specification or 10 megohms at 25°C, whichever is applicable."

PAGE 77/78

* Figure 7, table "A": Delete and substitute the following table "A":

"TABLE "A"
STANDARDIZED SWITCHGEAR UNITS

Generator size in kw	AQB Type 250 or unit 400	Dimensions of units (All dimensions in inches)										Diagrams figure 8 and 9			
		AQB 800 or ACB 900, 902	ACB 1600	ACB 3200	ACB 4000	A	B	C	D	E	F	G	H	K	M
30-60-100-200	G1	1				74	20	33-1/2		26-3/4		13-1/8	20-5/8	5-3/16	2,5,7,8
200-300-500	2		1			81	20	40-1/2	9	14	13	13-1/8	20-5/8	8-11/16	1,6,7,9
750-1000	3			1	1	81	27	40-1/2	9	14	13	12-1/4	23-1/2	11-11/16	1,6,7,9
1500-2000	5					81	33	44-1/2	13	11	16	12-1/4	23-1/2	11-11/16	1,6,7,10
2500	7					81	39	49-1/2	18	11	16	17-1/4	25-1/2	14-11/16	1,6,7,11 or 12
30-60 (DC)	10					74	20	33-1/2		26-3/4					2,5,7,8
150-200 (DC)	11		1			81	20	40-1/2	9	14	13	13-1/8	20-5/8	5-3/16	1,6,7,9
	B20		2			81	18	40-1/2	9	14	13	13-1/8	21-7/8	3-7/8	1,4,7,9
	21			2		81	27	40-1/2	9	11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
	22				2	81	27	44-1/2	13	11	16	12-1/4	26-3/4	8-3/8	1,4,7,10
	25					81	33	49-1/2	18	11	16	17-1/4	26-3/4	11-11/16	1,4,7,11 or 12
	26					81	33	44-1/2	13	11	16	12-1/4	26-3/4	11-11/16	1,4,7,10
	D50		3			81	18	40-1/2	9	14	13	13-1/8	21-7/8	3-7/8	1,4,7,9
	51			2		81	27	40-1/2	9	11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
	52				2	81	27	44-1/2	13	11	16	12-1/4	26-3/4	8-3/8	1,4,7,10
	55					81	27	49-1/2	18	11	16	17-1/4	26-3/4	8-3/8	1,4,7,11 or 12
	56					81	33	49-1/2	18	11	16	17-1/4	26-3/4	11-11/16	1,4,7,11 or 12
		AQB-A101	A102	AQB	AQB	ACB	ACB	ACB	ACB						
		A101	A102	250	400	900	902	1600							
D60	5	1	or 1	2		81	18	40-1/2	9	14	13	13-1/8	21-7/8	3-7/8	1,4,7,9
61						81	18	40-1/2	9	14	13	13-1/8	21-7/8	3-7/8	1,4,7,9
62	12	12	2	1		81	20	40-1/2	9	11	16	13-1/8	20-5/8	3-7/8	1,6,7,9
63	12	8	4	1		81	22-1/2	40-1/2	9	11	16	13-1/8	20-5/8	3-7/8	1,6,7,9
64						81	22-1/2	40-1/2	9	11	16	13-1/8	20-5/8	3-7/8	1,6,7,9

"TABLE "A"
STANDARDIZED SWITCHGEAR UNITS - CONTINUED

Generator size in kw	Type	AQB A101	AQB 250	AQB 400	ACB 900, 902	ACB 1600	Dimensions of units (All dimensions in inches)						Diagrams Figure 8 and 9
							A	B	C	D	E	F	G
70		6			2	81 27	40-1/2	9 11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
71		2 or 2			2	81 27	40-1/2	9 11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
72		16			1	81 27	40-1/2	9 11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
73		12	2		1	81 27	40-1/2	9 11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
74		6	4		1	81 27	40-1/2	9 11	16	13-1/8	21-7/8	8-3/8	1,4,7,9
80	14 or 10				74 14-1/2	33-1/2				26-3/4			2,5,7,8
D81		12			81 14-1/2	31-1/2				24-3/4			3,5,7
82	22 or 15				74 20	33-1/2				26-3/4			2,5,7,8
83	18				81 20	31-1/2				24-3/4			3,5,7
85		10			81 22-1/2	31-1/2				24-3/4			3,5,7
86		15			74 32	33-1/2				26-3/4			2,5,7,8
87		15			81 32	31-1/2				24-3/4			3,5,7
88		5			74 14-1/2	33-1/2				26-3/4			2,5,7,8
89		5			81 14-1/2	31-1/2				24-3/4			3,5,7
90	24 or 16				74 22-1/2	33-1/2				26-3/4			2,5,7,8
91		20	2		81 22-1/2	31-1/2				24-3/4			3,5,7
92	16 or 12	4			74 22-1/2	33-1/2				26-3/4			2,5,7,8
93		12	6		81 22-1/2	31-1/2				24-3/4			3,5,7
95		18	9		81 32	31-1/2				24-3/4			3,5,7
96	8 or 6	2			74 14-1/2	33-1/2				26-3/4			2,5,7,8
97		6	3		81 14-1/2	31-1/2				24-3/4			3,5,7
100	E40 40A	ABT A3(ES) ABT-A3(ES) SAME AS E40 EXCEPT HAS UNLOADER						74 20	33-1/2	26-3/4			2,5,7,8
200-300-500	41	ABT-A3(ES) (ACB-900 or 902)	81 36	40-1/2	9 11	16				13-1/8	21-7/8	3-7/8	1,4,7,9
750-1000	42	ABT-A3(ES) (ACB 1600)	81 54	40-1/2	9 14	13				13-1/8	21-7/8	8-3/8	1,4,7,9

MIL-S-16036K(SH)
AMENDMENT 2

PAGE 102

* Following appendix B, insert the following index:

"INDEX

	PARAGRAPH	PAGE
Accessibility	3.8.8	35
Arrangement		
Casualty power	3.8.6.1	35
Equipment	3.8.3	34
Baffles, spray	3.5.9.1	31
Bolts and bolting		
Busbars	3.10.11	40
Connection bars	Table III	41
Mounting	3.8.2	34
Bus bars		
Aluminum	3.10.4	37
Bolting	3.10.11	40
Bolting holes	3.10.10.1	39
Bolts and nuts	3.10.11	40
Capacity	3.10.14	41
Connections	3.10.1	36
Contact pressure	3.10.12	40
Copper	3.10.2	36
Forming	3.10.9	39
Identification		
Phase	3.20.13	53
Voltage	3.20.14	53
Insulation	3.10.15	41
Paste	3.10.10.2	40
Preparation of joints	3.10.10.2	40
Silver surfacing	3.10.10	39
Sizes	3.10.6	37
Supports	3.10.13	41
Bus tie units		
AC, centralized machinery control system	3.4.1.1.2	12
AC with EPCP	3.4.1.3	14
AC without EPCP	3.4.1.4	15
DC	3.4.5.2	27
Bus tie and shore power units		
AC, centralized machinery control system	3.4.1.1.2	12
AC with EPCP	3.4.1.1.2.2	13
AC without EPCP	3.4.1.4.2	16
DC	3.4.5.2.2	28

MIL-S-16036K(SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Cable (control and instrument)		
Connections, external control	3.11.4	43
Connector, cable end	3.11.2	43
Forming and securing cable groups	3.11.3	43
Types	3.11.1	42
Cable (power)		
Connections between buses	3.10.17	42
Connector sizes	3.10.3	36
Connector types	3.10.16	42
Entering switchboards	3.11.1	42
For circuit breakers	3.10.8	39
Sizes for casualty power	3.10.5	37
Cadmium	3.3.1.2	7
Casualty power equipment	3.8.6	35
Arrangements	3.8.6.1	35
Cable connector sizes	3.10.5	37
Circuit breaker ratings	3.8.6.3	35
Mounting of	3.8.6.2	35
Riser in ac emergency generator switchboard	3.4.2.1	25
Riser in ac generator switchboard	3.4.1.1	9
Riser in distribution section	3.4.4.1	27
Circuit breakers	3.12	45
Cable connectors	3.10.16	42
Cabling for	3.10.8	39
Casualty power	3.8.6.3	35
Manuals		
Mounting	3.12	45
ACB	3.12.2	45
AQB	3.12.1	45
NQB	3.12.1	45
Panels, blank	3.4.1.7.1	23
Classification	1.2	1
Compartmentation	3.5.8	31
Connections		
Between buses	3.10.17	42
Cable, external control	3.11.4	43
Voltage regulator	3.11.10	44
Construction	3.4, 3.5	8, 28
Baffles, spray	3.5.9.1	31
Channel, foundation	3.5.6	30
Special sections	3.5.6.2	30
Standardized units	3.5.6.1	30
Compartmentation	3.5.8	31
Dimensions	3.5.2	29
Framework fabrications		
Assembly	3.5.5	30
Gusset plates	3.5.4	29
Standardized and special units	3.5.3.1	29

MIL-S-16036K (SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Locking devices	3.5.12	32
Materials	3.5.11	31
Mechanical assemblies	3.5.5	30
Parts and components	3.5.16	32
Shock	3.5.14	32
Side sheets	3.5.7	30
Soldering	3.5.15	32
Switchgear sections	3.5.1	28
Special	3.5.1.2	29
Standardized	3.5.1.1	28
Ventilation	3.5.9	31
Vibration	3.5.10	31
Welding	3.5.13	32
 Data requirements	6.2.2	64
Diagrams		
Bus bar mounting	Fig. 16	89
Bus connections bolting	Fig. 15	88
Bus transfer, three-way ABT-A3	Fig. 5	76
Cable marking and detail of connections	Fig. 17	89
Control, one-line	Fig. 1, 3	69, 73
Corner construction, bottom	Fig. 10	83
EPCP, desk type	Fig. 4	74/75
Emergency power, one-line	Fig. 6	76
Ground light schemes	Fig. 19	91
Guard rail vertical, mounting	Fig. 23	94
Guard rail rear, mounting	Fig. 24	94
Gusset plates	Fig. 11	84
Hinge assembly, panel	Fig. 14	87
Latch bolt for hinged and removable panel	Fig. 21	93
Latch bolt, hinged panel, secure panel	Fig. 22	93
Plans, standardized switchboard	Fig. 8, 9	79/80, 81/82
Shore power	Fig. 2	70-72
Synchronizing connections	Fig. 18	90
Spraytight construction	Fig. 12	85
Thumbscrews, anchor devices	Fig. 13	86
Units, standardized switchgear	Fig. 7	77/78
Voltage protective devices for CTS	Fig. 20	92
Definitions	6.5	67
Defects, classification	4.5.2	55
Derating, components	3.3.3	8
Dielectric		
Strength	3.25	53
Test	4.6.3.5	60

MIL-S-16036K(SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Dimensions		
Bolts	3.5.6.2	30
Bolt holes	3.5.6.2	30
Bus bar bolts	3.10.10.1	39
Bus bar bolt holes	3.10.10.1	39
Foundation	3.5.6	30
Framework assembly	3.5.5	30
Gusset plates	3.5.4	29
Switchgear		
Standardized section	3.5.1.1	28
Groups	3.5.2	29
Disconnecting devices	3.13.1	46
Distribution units		
ACB	3.4.1.6	23
ACB, AQB	3.4.1.8	24
AQB	3.4.1.7	23
DC, AQB	3.4.5.3	28
Documentation	2.	1
Government	2.1	1
Specifications and standards	2.1.1	1
Other Government publications	2.1.2	5
Other publications	2.2	5
Order of precedence	2.3	7
Drawings	3.27	53
Electromagnetic interference (EMI)	3.24	53
Test	4.6.3.8	62
Emergency generator control		
Circuit breaker type bus transfer section	3.4.2.1	24
Contactor type bus transfer section	3.4.2.2	26
Emergency power switchgear	3.4.2	24
Enclosures, switchboard		
Rear	3.17.1	49
Top	3.17.2	49
Spraytight	3.17.4	50
Equipment		
Securing of	3.8.1	34
Test	4.6.1	58
Examination and test	4.6	58
First article	6.3	65
Foundations		
Channels	3.5.6	30
Standardized units	3.5.6.1	30
Special sections	3.5.6.2	30

MIL-S-16036K(SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Framework		
Assembly	3.5*5	30
Fabrication	3.5.3	29
Materials	3.5.11	31
Vibration	3.5.10	31
Welding	3.5.13	32
Fuses	3.14	46
Mounting	3.14.2	46
Fuseholders		
Dead front	3.14.2.1	46
Clip type	3.14.2.2	46
Fusing of transformers	3.14.1	46
Generator control unit		
AC, centralized machinery control system	3.4.1.1.1	9
AC with EPCP	3.4.1.1	8
AC without EPCP	3.4.1.2	13
AC emergency	3.4.2.1	24
AC emergency and contactor bus transfer section	3.4.2.2	26
AC emergency and circuit breaker bus transfer	3.4.2.1	24
DC	3.4.5.1	27
Ground		
Lights		
Test		
Grounding, transformer		
Group, ship service power switchgear	3.4.1	8
Grouping of bus bars	3.10.7	38
Guard rails	3.18	50
Gusset plates	3.5.4	29
Heat test		
Heater, space	3.11.6	44
Hinging, panel	3.7.2	34
Identification and information plates and marking	3.20	51
Indicator		
Lights	3.16	48
Phase sequence, shore power	3.9.1	36
Heater, space	3.11.6	44
Inspection		
Classification	4.2	54
Conditions	4.3	54
First article	4.4	55
Packaging	4.7	62
Quality conformance	4.5	55
Responsibility for	4.1	54
Instruments, electrical measuring	3.15.1	47

MIL-S-16036K (SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Insulation	3.6	33
Distances	3.6.2	33
Material	3.6.1	33
Resistance	3.6.2.2	33
 Lights		
Indicator	3.16	48
Ground detector	3.11.9	44
Mimic bus	3.11.7	44
Power	3.11.7	44
Load center		
Distribution section	3.4.4	26
Load shedding	3.4.1.9	24
Locking devices		
Assemblies, mechanical	3.5.12.2	32
Connections, electrical	3.5.12.1	32
Thread	3.5.12.3	32
 Manuals	6.2.2.2	65
Maintainability	3.23	53
Marking		
Identification and information plates	3.20	51
Switchboard buses	3.20.11	52
Terminal .	3.11.11	44
Wire	3.11.11	44
Materials	3.3.1, 3.5.11	7, 31
Government furnished	3.22	53
Recovered	3.3.2	8
Mechanical assemblies	3.5.12.2	32
Meters	3.15.1	47
Mercury	3.3.1.3	8
Monitor, reverse power	3.15.7	48
Mounting		
ACB circuit breakers	3.12.2	45
AQB and NQB circuit breakers	3.12.1	45
Casualty power equipment	3.8.6.2	35
Equipment	3.8	34
Fuses	3.14.2	46
Securing of equipment	3.8.1	34
 Nonstandard switchgear	6.5.8	67
Ordering data	6.2	62
Packaging	5.	62
Painting	3.19	50

MIL-S-16036K (SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Panels	3.4.1.5	17
Blank, circuit breaker	3.4.1.7.1	23
Control, electric plant		
Desk type	3.4.1.5.1	17
400 Hz for frequency changer systems	3.4.1.5.6	22
Submarine	3.4.1.5.5	21
Surface ship	3.4.1.5.4	17
Vertical	3.4.1.5.2	17
Fastening	3.17.3	49
Hinged and removable enclosing	"3.7	34
Hinging	3.7.2	34
Structure	3.7.1	34
Paralleling	3.4.1.1.1	11
Phase		
Identification of buses	3.20.13	53
Sequence indicator, shore power	3.9.1	36
Rotation	3.8.5	35
Plates		
Identification	3.20"	51
Information	3.20	51
Polarity	3.8.4	35
Preservation	5.1	62
Provisioning	6.4	65
Qualification under referenced specifications	6.7	68
Quality assurance provisions	4.	54
Regulators, voltage	3.8.7	35
Relays	3.15.4	48
Repair parts	6.4	65
On board	6.4	65
Reports, test	4.6.4	62
Resistors	3.15.6	48
Rheostats	3.15.6	48
Safety	3.2.1	7
Accidental contact	3.2.2	7
Scope	1.1	1
Selection of parts and components	3.5.16	32
Ships service power switchgear group		
AC	3.4.1	8
DC	3.4.5	27
Shock		
Extension of tests	4.6.3.4.3	60
Mechanical	3.5.14	32
Test	4.6.3.4	59

MIL-S-16036K(SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Shore power, bus tie units		
AC, centralized machinery control system	3.4.1.1.2.2	13
AC with EPCP	3.4.1.1.2	12
AC without EPCP	3.4.1.4.2	16
DC	3.4.5.2.2	28
Side sheets	3.5.7	30
Soldering	3.5.15	32
Spraytight enclosures (submarine application)	3.17.4	50
Sub-contracted material and parts	6.6	68
Switches	3.13	45
Circuit breaker control, shore power	3.9.3	36
Reference selector, shore power	3.9.2	36
Transfer	3.13	45
Switchgear		
Group	3.3.1.1	7
Section	6.5.2	67
Standardized section	3.5.1.1	28
Standardized unit	6.5.1	67
Synchronizing	3.11.5	43
Temperature		
Ambient	3.26	53
Indicator	3.11.6	44
Test	4.6.3.6.2, 4.6.3.7	61, 62
Terminal		
Blocks	3.14	46
Boards	3.14.3	47
Cable lugs	3.10.16	42
Tests		
Conditions	4.6.2	58
Dielectric strength	4.6.3.5	60
Electromagnetic interference	4.6.3.8	62
Equipment	4.6.1	58
Examination	4.6.3.1	58
First article	4.4	55
Heat	4.6.3.6.2, 4.6.3.7	61
Insulation resistance	4.6.3.10	62
Maintainability	4.6.3.2	58
Shock	4.6.3.4	59
Short circuit	4.6.3.9	62
Vibration	4.6.3.3	58
Waterspray	4.6.3.6.1	61

MIL-S-16036K(SH)
AMENDMENT 2

INDEX

	PARAGRAPH	PAGE
Tools	3.21	53
Transformers		
Control	3.11.8	44
Instrument (potential and current)	3.15.3.1	47
Fusing	3.14.1	46
Grounding	3.15.3.2	48
Power	3.15.5	48
Ventilation	3.5.9	31
Vibration	3.5.10	31
Test	4.6.3.3	58
Voltage, control	3.11.13	44
Welding	3.5.13	32
Wiring		
Control and instrument circuits	3.11.1	42
Forming and securing	3.11.3	43
Workmanship	3.28	54"

NOTE : The margins of this amendment are marked with asterisks to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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