

250 kVA  
400 V - 50 Hz

$I_{B1} = (I_{BA} + I_{Bg} + I_{BC}) \cdot K$   
 $I_{B1} = 363 \times 0.9 = 326 \text{ A (303 A)}$   
 i.e. calculated power of 224.9 kVA (209 kVA)

Main switch panel board

$K_c = 0.9$

$I_{BA} = (I_{B11} + I_{B12} + I_{B13} + I_{B14}) \cdot K_{BA}$   
 $I_{BA} = 183 \times 0.8 = 146.4 \text{ A}$   
 (151 x 0.8 = 121 A)

$I_{Bg} = (I_{B23} + I_{B24} + \dots + I_{B210}) \cdot K_{Bg}$   
 $I_{Bg} = 195.8 \times 0.7 = 137.1 \text{ A}$

$I_{BC} = (I_{B311} + \dots + I_{B314}) \cdot K_{BC}$   
 $I_{BC} = 99.2 \times 0.8 = 79.4 \text{ A}$

Distribution board A

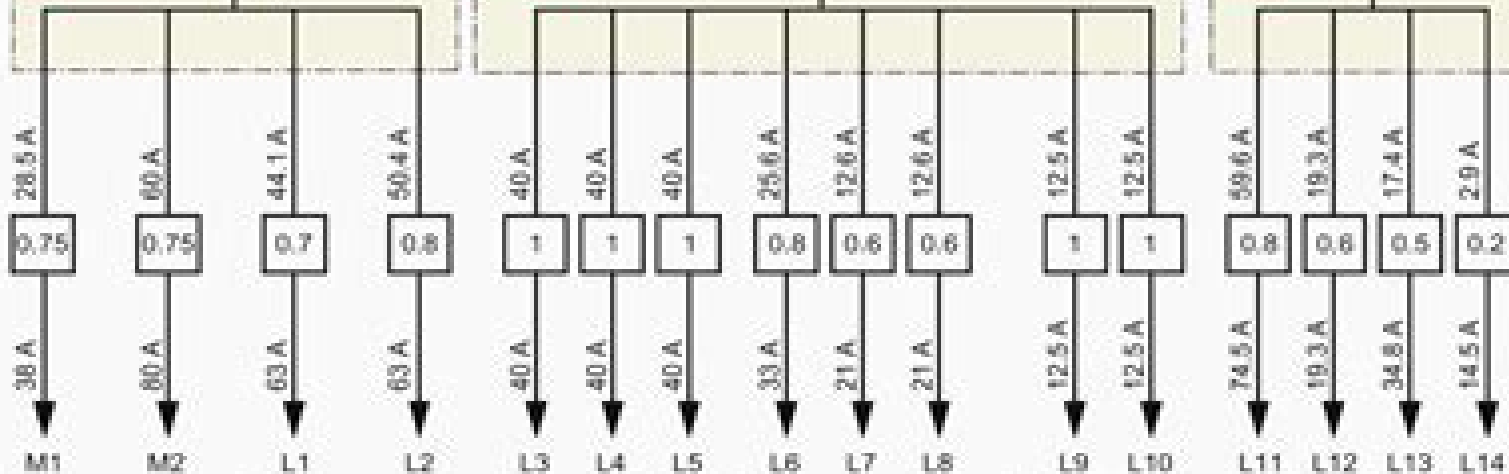
$K_{BA} = 0.8$

Distribution board B

$K_{Bg} = 0.7$

Distribution board C

$K_{BC} = 0.8$



Loads and receivers

Description

Motors<sup>(1)</sup> on direct supply, air conditioning

Power connectors 2 x 63 A

Heating 3 x 40 A

Sockets 1 x 32 A 2 x 20 A

Lighting 2 x 10 A

Miscellaneous processes

Power (kW)

24.2

39.8

73.9

82.8

49.7

13.8

36

12

24

8

Power factor PF

0.92

0.72

0.8

1

0.95

0.8

0.7

0.9

1

0.8

Apparent power S (kVA)

26.3

55.3

87

82.8

52.3

17.4

51.4

13.3

24

10

# Electrical Installation Calculations

**A.J. Watkins, Christopher Kitcher**



## **Electrical Installation Calculations:**

**Electrical Installation Calculations** A. J. Watkins, Chris Kitcher, 2009 Volume 2 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 3 Certificate in Electrotechnical Technology from City Guilds and will also prove a vital purchase for those undertaking Level 3 NVQs in Electrotechnical Services Publisher's website [Electrical Installation Calculations](#) A. J. Watkins, Chris Kitcher, 2006 Designed to provide a step by step guide to successful application of the electrical installation calculations required in day to day electrical engineering practice the Electrical Installation Calculations series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike Now in its seventh edition Volume 1 has been fully updated to meet the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City Guilds and will also prove a vital purchase for students of the Level 2 NVQ in Installing Electrotechnical Systems 2356 Essential calculations which may not necessarily feature as part of the requirements of these syllabi are retained for reference by professional electrical installation engineers based in industry or for those students wishing to progress to higher levels of study The new edition also brings content in line with the latest edition of the Wiring Regulations BS 7671 2001 incorporating Amendments 1 2002 2 2004 with material cross referenced to the Wiring Regulations throughout New learning features are now incorporated into the text In particular alongside the traditional long method of calculation new calculator methods are presented to demonstrate this alternative more simplified methodology now often in use Key terms are explained in a glossary section and worked examples and exercises are included throughout the text to maximise accessibility of the material for the reader A complete answer section is included at the back of the book to enable readers to check their understanding of the calculations presented Also available from Newnes **Electrical Installation Calculations Volume 2** 6th edn 0 7506 6783 4 by Watkins Kitcher the calculations required for advanced electrical installation work and Level 3 study Advanced Modern Apprenticeships The established series for carrying out correct electrical installation calculations continuously in print for over 40 years New edition matched to the requirements of the latest qualifications from City Guilds 2330 Level 2 Certificate in Electrotechnical Technology Calculator methods provide an alternative simplified methodology for completing electrical installation calculations *Electrical Installation Calculations: Basic* A.J. Watkins, 2010-09-08 Designed to provide a step by step guide to successful application of the electrical installation calculations required in day to day electrical engineering practice the Electrical Installation Calculations series has proved an invaluable reference for over forty years for both apprentices and professional electrical installation engineers alike Now in its eighth edition Volume 1 has been fully updated in line with the 17th Edition IEE Wiring Regulations BS 7671 2008 and references the material covered to the Wiring Regs throughout The content meets the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City Guilds Essential calculations which

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**Calculations** Mark Coates, B. D. Jenkins, 2011-07-11 Manual calculations are still extensively used and in particular are necessary for checking and verifying various software calculation design packages. It is highly recommended that users of such software familiarise themselves with the rudiments of these calculations prior to using the software packages. This essential book fills the gap between software and manual calculations. It provides the reader with all the necessary tools to enable accurate calculations of circuit designs. Rather than complex equations, this book uses extensive worked examples to make understanding the calculations simpler. The focus on worked examples furnishes the reader with the knowledge to carry out the necessary checks to electrical cable sizing software programmes. Other key features include Updated information on 230 volt references and voltage drop under normal load conditions. New sections on buried cables that take into account soil thermal conductivity, trenches and grouping, allowing readers to carry out accurate cables sizing. Information and examples of steel wired armour cables new to this edition. This includes sufficiency during short circuits and for cables with externally run CPCs gives unique fault conditions. Covers calculations of cross sectional areas of circuit live conductors. Earth fault loop impedances. Protective conductor cross sectional areas and short circuit conditions. Short circuit protection. The last chapter combines all of the calculations of the previous chapters to enable the reader to complete an accurate design of an installation circuit under all conditions. A unique tool for detailed electrical installation trade.

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