BOOK No. E.L. 0.274

BRITISH RAILWAYS ELECTRIC LOCOMOTIVE DIAGRAMS

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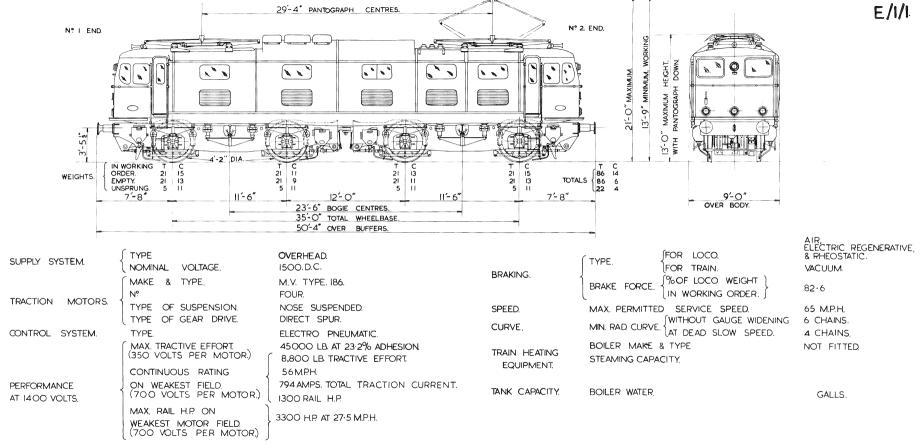
BRITISH RAILWAYS BOARD CHIEF MECHANICAL ENGINEER

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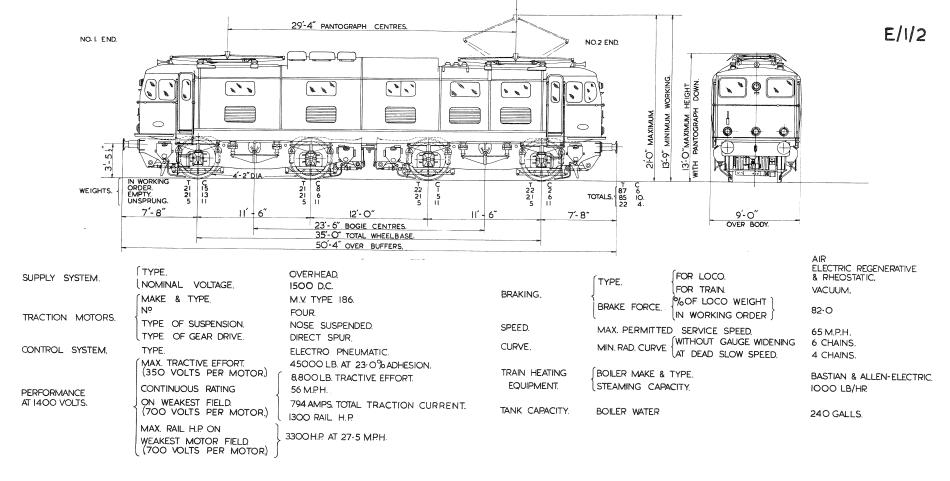
STINDON DRAWING OFFICE

FOR J. F. HARRISON...

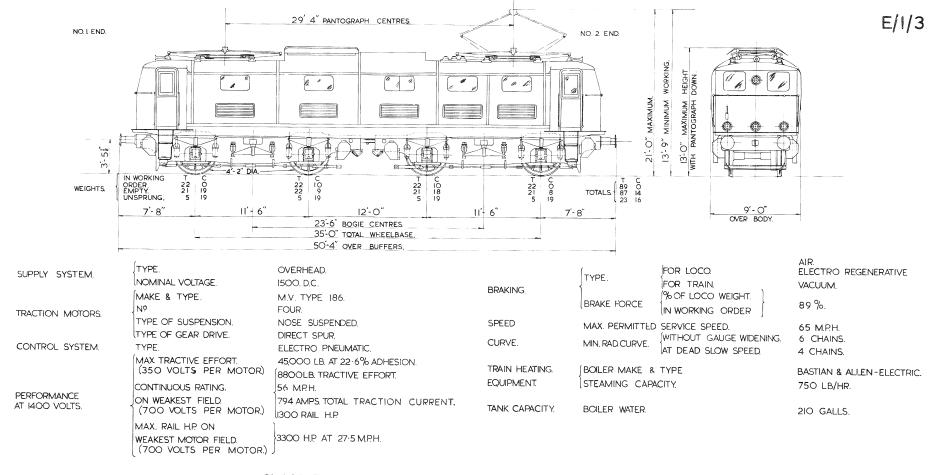




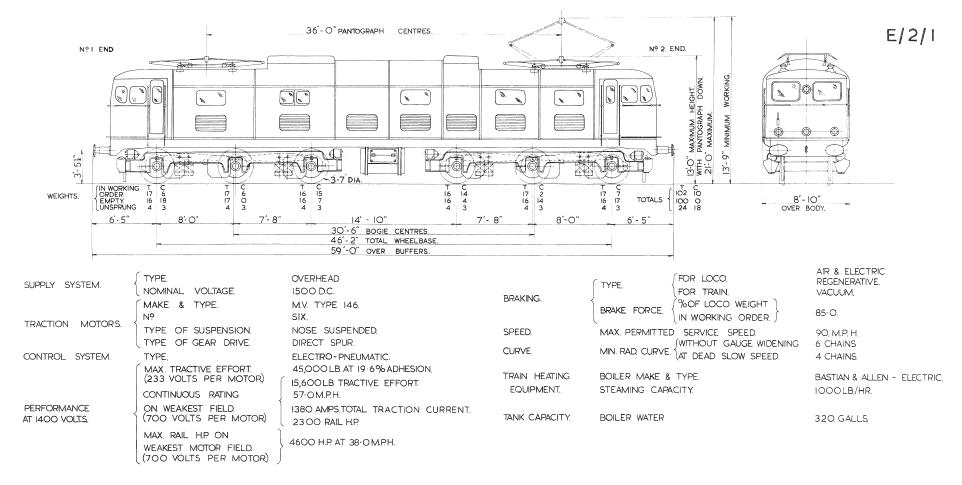
CLASS E.M.I. BR. B+B. D.C. ELECTRIC LOCOMOTIVE.

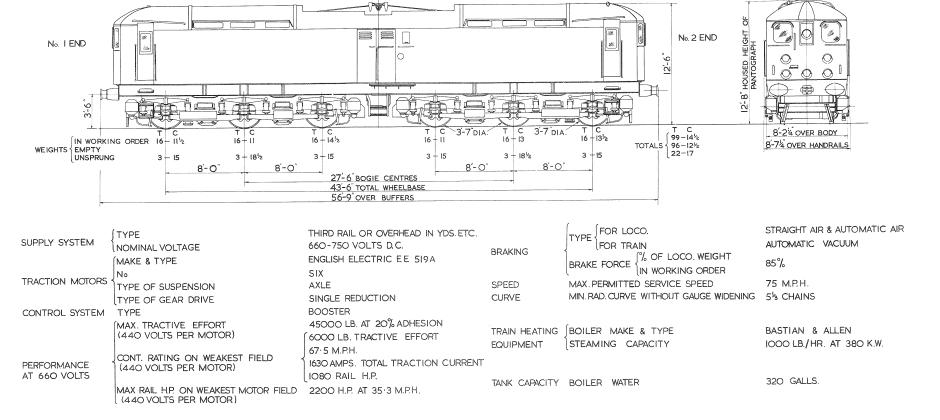


CLASS E.M.I. BR. B+B D.C. ELECTRIC LOCOMOTIVE.

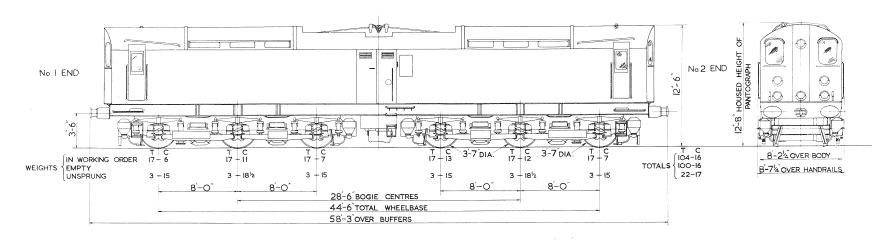


CLASS E.M.I. B.R. B+B D.C. ELECTRIC LOCOMOTIVE,



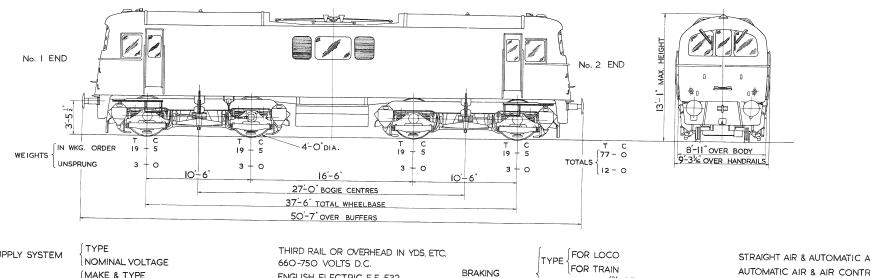


B.R. C-C D.C. ELECTRIC LOCOMOTIVE.



	TYPE	THIRD RAIL OR OVERHEAD IN YDS ETC		TYPE FOR LOCO	STRAIGHT AIR & AUTOMATIC AIR
SUPPLY SYSTEM	NOMINAL VOLTAGE	660-750 VOLTS D.C.	BRAKING	FOR TRAIN	AUTOMATIC VACUUM
	MAKE & TYPE	ENGLISH ELECTRIC E.E. 519/3C	BRAKING	BRAKE FORCE \% OF LOCO. WEIGHT	81%
TO . OTI O	No.	SIX		(IN WORKING ORDER	0170
TRACTION MOTORS	TYPE OF SUSPENSION	AXLE	SPEED	MAX. PERMITTED SERVICE SPEED	75 M.P.H.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	CURVE	MIN. RAD. CURVE WITHOUT GAUGE WIDENING	51/3 CHAINS
CONTROL SYSTEM	TYPE	BOOSTER			
	(MAX. TRACTIVE EFFORT (440 VOLTS PER MOTOR)	45000 LB AT 19% ADHESION 6000 LB TRACTIVE EFFORT		BOILER MAKE & TYPE	BASTIAN & ALLEN
PERFORMANCE AT 660 VOLTS	CONT. RATING ON WEAKEST FIELD (440 VOLTS PER MOTOR)	67-5 M.P.H. 1630 AMPS, TOTAL TRACTION CURRENT 1080 RAIL H.P.	EQUIPMENT TANK CAPACITY	STEAMING CAPACITY BOILER WATER	1000 LB./HR. AT 380 K.W. 540 GALLS.
AI 000 VOLIS	MAX RAIL H.P. ON WEAKEST MOTOR FIELD (440 VOLTS PER MOTOR)	2200 H.P. AT 35-3 M.P.H.	TARK CAPACITY	BOILEY HALEY	JAC CALLO.

B.R. C-C D.C. ELECTRIC LOCOMOTIVE.

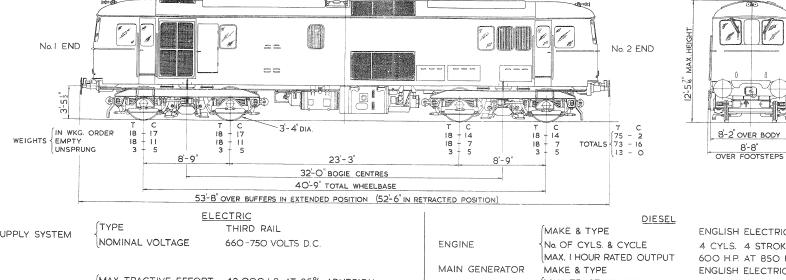


SUPPLY SYSTEM TRACTION MOTORS CONTROL SYSTEM	TYPE NOMINAL VOLTAGE MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE TYPE	THIRD RAIL OR OVERHEAD IN YDS. ETC. 660-750 VOLTS D.C. ENGLISH ELECTRIC E.E. 532 FOUR FULLY SUSPENDED SINGLE REDUCTION	BRAKING SPEED CURVE	BRAKE FORCE (% OF LOCO, WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTOMATIC AIR AUTOMATIC AIR & AIR CONTROLLED VACUUN 88% 90 M.P.H. 4 CHAINS
DEDEODMANICE	MAX. TRACTIVE EFFORT (675 VOLTS PER MOTOR) CONT. RATING ON WEAKEST FIELD (675 VOLTS PER MOTOR)	BOOSTER 43000 LB. AT 25% ADHESION [12400 LB. TRACTIVE EFFORT 69-6 M.P.H. 3000 AMPS. TOTAL TRACTION CURRENT	TRAIN HEATING EQUIPMENT	ELECTRIC HEATING AND TO	300 K.W. AT 675 VOLTS

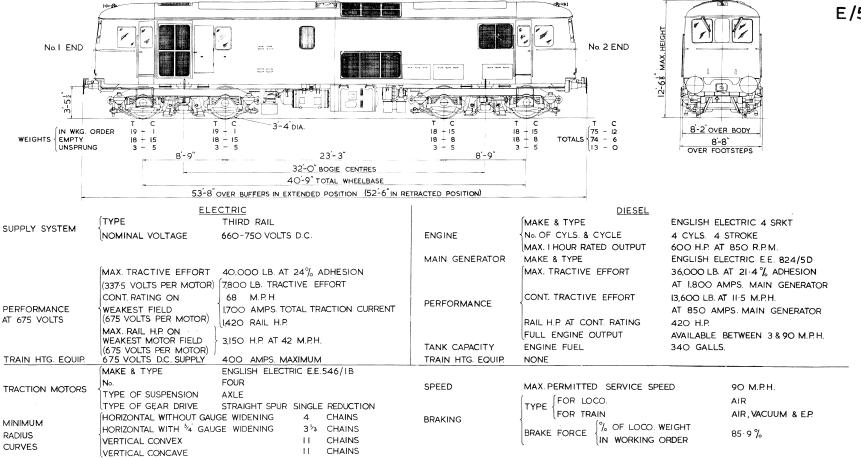
B.R. B-B D.C. ELECTRIC LOCOMOTIVE.

2300 RAIL H.P.

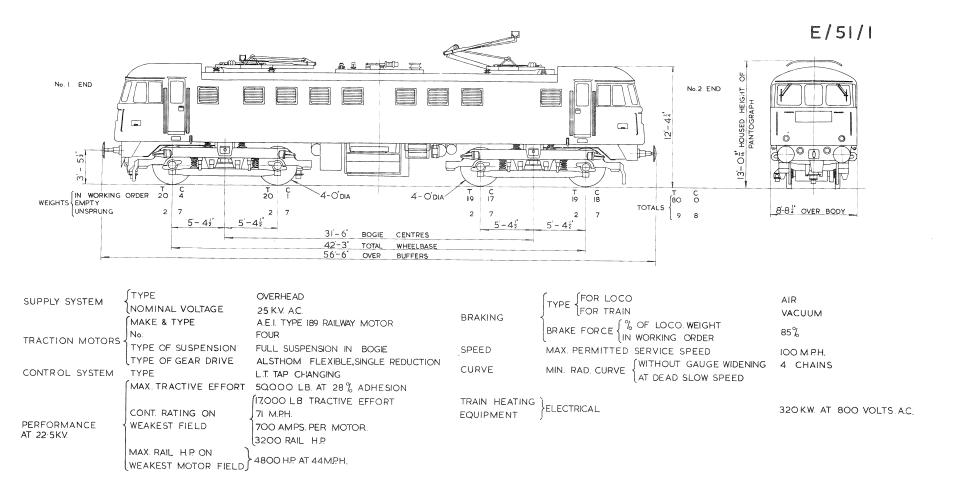
MAX. RAIL H.P. ON WEAKEST MOTOR FIELD 3000 H.P. AT 59:3 M.P.H. (675 VOLTS PER MOTOR)



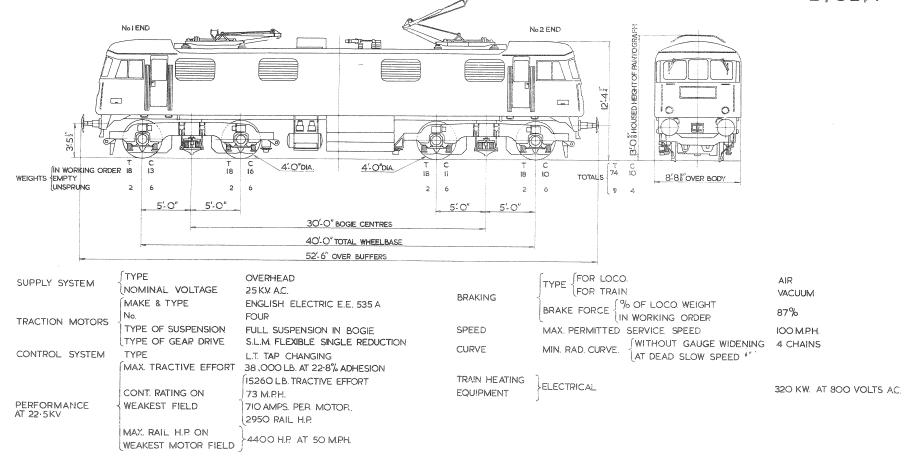
ELECTRIC		DIESEL				
SUPPLY SYSTEM	TYPE	THIRD RAIL		MAKE & TYPE	ENGLISH ELE	ECTRIC 4 SRKT
	NOMINAL VOLTAGE	660-750 VOLTS D.C.	ENGINE	No. OF CYLS. & CYCLE	4 CYLS. 4 9	STROKE
	MAX. TRACTIVE EFFORT	42,000 LB. AT 25% ADHESION	MAIN GENERATOR	MAX. I HOUR RATED OUTPUT MAKE & TYPE [MAX. TRACTIVE EFFORT		850 R.P.M. ECTRIC E.E. 824/3D NT 20:3% ADHESION
PERFORMANCE AT 675 VOLTS		9,600 LB. TRACTIVE EFFORT 55-5 M.P.H. 1,700 AMPS. TOTAL TRACTION CURRENT 1,420 RAIL H.P.	PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING	AT 1,500 AMPS. MAIN GENERATOR 16,100 LB. AT 10 M.P.H. AT 850 AMPS. MAIN GENERATOR 430 H.P.	
TRAIN HTG. EQUIP	WEAKEST MOTOR FIELD (675 VOLTS PER MOTOR) 675 VOLTS D.C. SUPPLY	2,450 H.P. AT 37 M.P.H. 400 AMPS. MAXIMUM	TANK CAPACITY TRAIN HTG. EQUIP	FULL ENGINE OUTPUT ENGINE FUEL PREHEATING	340 GALLS.	ETWEEN 3 & 80 M.P.H. FROM MAIN GENERATOR
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	ENGLISH ELECTRIC E.E. 542 A FOUR AXLE STRAIGHT SPUR SINGLE REDUCTION	SPEED BRAKING	MAX. PERMITTED SERVICE SPEI TYPE FOR LOCO. FOR TRAIN DRAKE CORRES 6% OF LOCO. W		80 M.P. H. AIR AIR. VACUUM & E.P.
CURVE	MIN. RAD. CURVE WITHOU			BRAKE FORCE IN WORKING C		82.7%

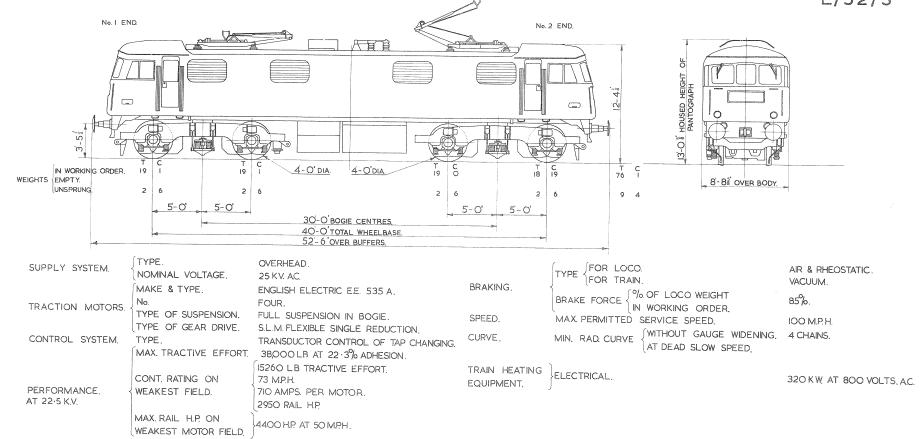


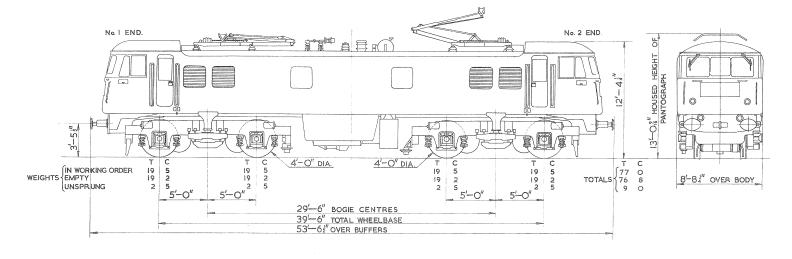
B.R. B-B 1600/600 H.P. ELECTRO-DIESEL LOCOMOTIVE

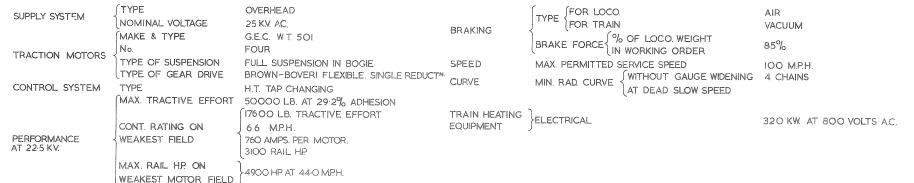


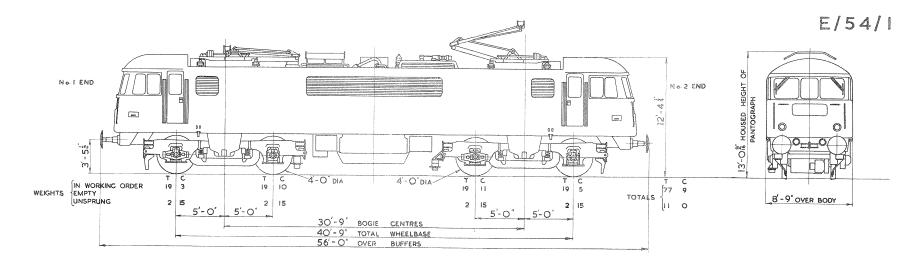
CLASS AL.I.AEJ. (BTH/BRCW.) B-B AC. ELECTRIC LOCOMOTIVE.

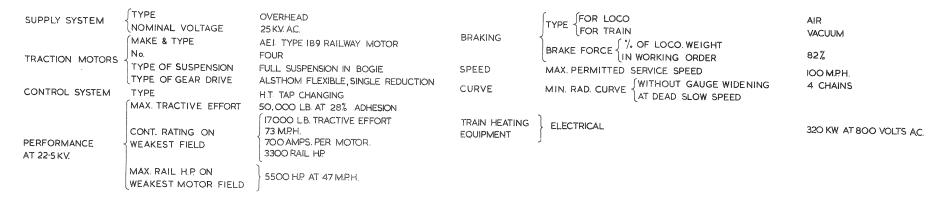




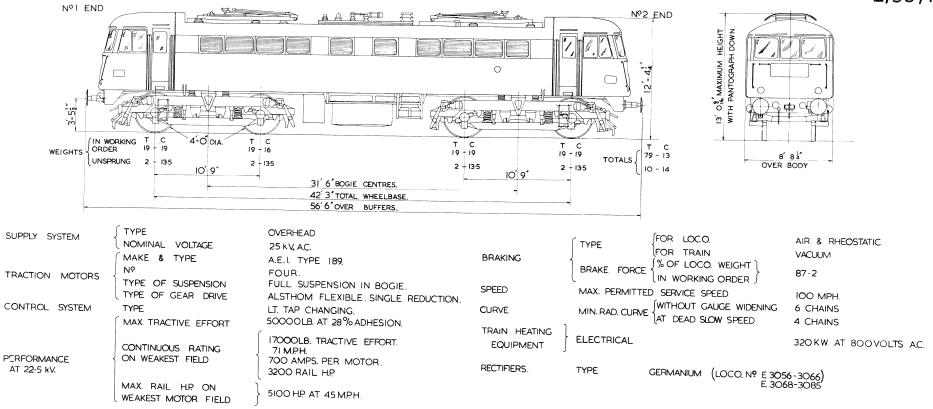






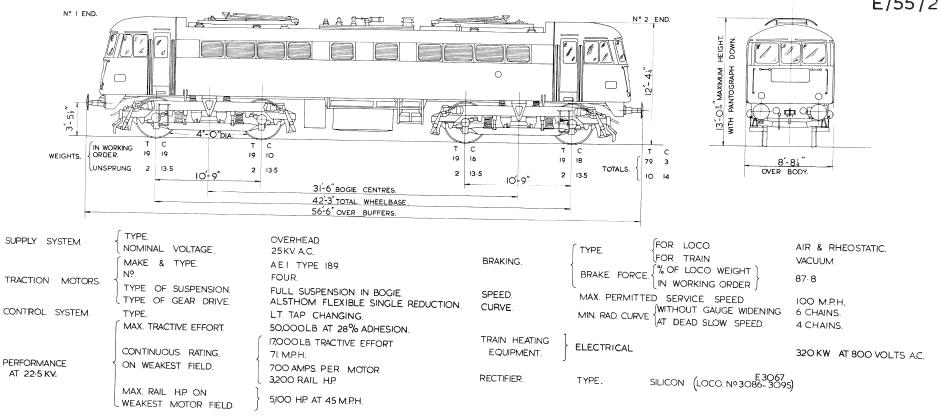


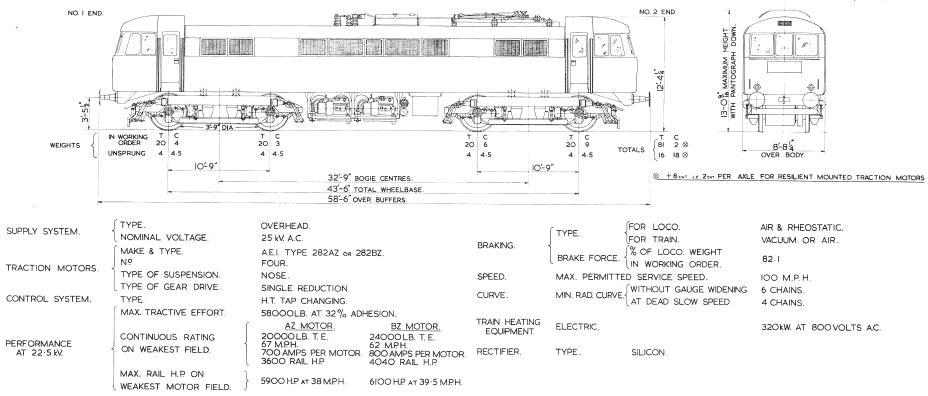
CLASS AL.2 AEI.(M-V/BP) B-B AC ELECTRIC LOCOMOTIVE.



CLASS AL.5 BR. B-B. AC. ELECTRIC LOCOMOTIVE.







CLASS AL6 B.R. B-B A.C. ELECTRIC LOCOMOTIVE.